

BUTTONS

Description of the industry.—The establishments in this industry are those whose principal products are buttons, parts of buttons, and button blanks and molds, regardless of kind of material of which made.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1929

[Data for establishments with products under \$5,000 in value included for 1919 and prior years but not for 1921 and subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers for products, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²	Horsepower
1929	242	9,034	\$8,813,927	\$11,501,401	\$29,977,919	\$17,476,518	14,615
1927	229	9,642	9,435,821	11,237,579	23,130,168	17,892,559	15,899
1925	289	11,513	10,893,170	12,372,646	32,438,435	20,085,789	15,840
1923	336	11,860	11,229,008	13,192,582	32,750,190	19,550,608	15,384
1921	346	9,686	8,511,449	10,405,511	26,559,591	16,128,580	(³)
1919	557	15,577	13,772,590	16,745,357	41,840,459	25,095,102	15,706
1914	517	14,511	6,424,399	8,702,200	20,711,579	12,009,779	14,009
1909	444	16,427	6,783,177	9,541,291	22,708,005	13,166,774	12,068
1904	275	10,567	3,689,196	4,144,446	11,133,769	6,989,323	6,188
1899	238	8,685	2,826,238	2,503,246	7,635,910	4,892,664	2,854
PER CENT OF INCREASE OR DECREASE (—)							
1927-1929	5.7	-0.3	-6.6	2.3	-0.5	-2.3	-8.1
1925-1927	-20.8	-16.3	-13.4	-0.2	-10.3	-16.9	0.4
1923-1925	-14.0	-2.9	-8.0	-0.3	-0.9	2.7	3.0
1921-1923	-2.9	22.4	31.9	26.9	23.4	21.2	-----
1919-1921	-37.0	-37.8	-38.2	-37.9	-36.6	-35.7	-----
1910-1929	-56.6	-42.0	-36.0	-31.3	-30.7	-30.4	-6.9
1909-1919	25.5	-5.2	102.9	75.5	84.2	90.6	30.1
1899-1909	86.6	89.1	140.2	240.4	195.1	169.1	450.3

¹ The figures given for 1929 refer to sales (shipments or deliveries) by manufacturers; those for earlier years represent production. See GENERAL EXPLANATIONS—Value of Products.

² Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

³ Not called for on schedule.

TABLE 2.—GENERAL STATISTICS, BY STATES: 1929, 1927, AND 1919

This table presents statistics separately for each State for which figures can be given without disclosing data for individual establishments, and for the remaining States in groups. Data for establishments with products under \$5,000 in value are included for 1919 but not for subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

STATE	Census year	Number of establishments	Salaried officers and employees ¹	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products ²	Value added by manufacture ³
					Total	Prime movers	Motors run by purchased energy			Total	Materials and containers	Fuel and purchased energy		
United States	1929	242	894	9,034	14,615	4,284	10,331	\$2,442,244	\$8,813,927	\$11,501,401	\$10,090,567	\$510,834	\$28,977,919	\$17,476,518
	1927	229	889	9,642	15,899	5,470	10,429	2,174,699	9,435,821	11,237,579	10,645,599	592,180	23,130,168	17,892,559
	1919	557	1,606	15,577	15,706	7,589	8,117	3,344,328	13,772,590	16,745,357	16,062,931	682,426	41,840,459	25,095,102
Individual States:														
Connecticut	1929	11	85	574	967	339	628	238,143	588,116	844,270	806,972	37,298	2,224,667	1,380,397
	1927	10	92	796	1,468	478	990	177,864	876,100	1,118,147	1,062,233	55,914	2,865,662	1,747,515
	1919	16	113	768	1,154	720	434	226,790	654,295	664,482	624,228	40,254	1,955,701	1,291,219
Illinois	1929	14	15	312	185	60	125	19,429	261,664	180,823	174,171	6,652	472,406	291,583
	1927	15	20	306	196	111	85	24,039	228,597	160,169	132,032	8,098	448,690	288,530
	1919	33	37	452	393	248	145	82,923	357,257	396,900	384,297	12,603	1,030,452	633,552
Indiana	1929	5	7	191	76	-----	76	10,528	141,538	80,777	77,679	3,098	347,643	266,866
	1927	5	7	164	198	105	93	10,790	122,369	134,935	130,961	3,974	289,815	154,889
	1919	14	18	261	267	146	121	17,906	170,192	171,637	160,808	11,069	408,457	236,520
Iowa	1929	52	148	2,332	2,746	1,787	959	459,469	1,829,176	2,762,029	2,688,944	73,085	6,236,357	3,474,328
	1927	44	122	2,817	2,811	1,737	1,054	375,296	1,837,282	2,578,461	2,433,659	84,822	5,736,869	3,157,888
	1919	77	179	2,901	2,340	1,732	608	399,612	1,519,448	2,476,788	2,411,221	65,567	5,615,455	3,138,677
Massachusetts	1929	6	2	41	171	150	21	4,495	44,375	60,566	50,526	4,040	178,081	117,515
	1927	7	8	99	201	150	51	17,795	64,485	122,068	117,229	4,839	320,333	198,265
	1919	17	36	385	482	250	232	62,877	310,997	262,241	239,540	22,701	1,017,929	755,688
Missouri	1929	4	11	138	143	-----	143	25,620	107,222	76,699	71,494	5,205	248,763	172,064
	1927	4	6	160	153	-----	153	9,389	125,130	82,773	77,443	5,330	276,173	193,400
	1919	9	25	235	237	245	42	24,716	175,833	162,850	154,896	7,954	395,263	232,413

¹ Not including proprietors and firm members. The total numbers of persons engaged and the numbers of proprietors and firm members, as reported for this industry, are as follows: For 1929, total, 10,055; proprietors and firm members, 127. For 1927, total, 10,692; proprietors and firm members, 131. For 1919, total, 17,758; proprietors and firm members, 575.

² The figures for 1929 refer to sales (shipments or deliveries) by manufacturers; those for earlier years represent production. See GENERAL EXPLANATIONS—Value of Products.

³ Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

⁴ Data for purchased power other than electric (power transmitted into the plant by belt or shaft) are included in the State items for 1919 but not in the United States totals.

CENSUS OF MANUFACTURES: 1929

TABLE 2.—GENERAL STATISTICS, BY STATES: 1929, 1927, AND 1919—Continued
(See note at head of this table)

STATE	Census year	Number of establishments	Salaried officers and employes	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products	Value added by manufacture
					Total	Prime movers	Motors run by purchased energy			Total	Materials and containers	Fuel and purchased energy		
Individual States—Con.														
New Jersey	1929	32	124	1,389	2,231	675	1,550	\$345,241	\$1,017,665	\$1,700,150	\$1,008,626	\$91,524	\$4,334,082	\$2,033,032
	1927	37	153	1,503	2,063	1,341	1,622	397,122	1,604,589	1,615,986	1,502,901	113,085	4,887,657	3,271,071
	1919	70	159	2,570	2,528	1,485	1,043	435,552	2,402,061	2,999,539	2,898,651	100,888	7,021,472	4,021,933
New York	1929	85	344	2,468	4,492	730	3,762	898,711	2,673,610	4,060,576	3,899,420	161,150	9,809,948	5,749,372
	1927	74	321	2,617	4,479	905	3,574	748,085	2,895,007	3,588,977	3,899,035	189,942	9,390,500	5,801,523
	1919	243	827	6,568	6,262	1,799	4,463	1,670,632	5,349,264	7,481,680	7,196,092	285,588	18,697,967	11,216,287
Pennsylvania	1929	8	39	461	729	352	377	95,016	468,745	714,947	684,909	30,038	1,748,645	1,033,698
	1927	11	52	473	842	477	365	125,555	494,401	649,095	610,989	29,100	1,395,175	746,080
	1919	24	73	807	789	579	210	255,205	1,612,661	962,181	935,110	27,071	2,318,556	1,356,375
Groups of States: Del., 2 est.; Maine, 1; Md., 1; N. H., 1; R. I., 1	1929	6	51	421	1,865		1,865	83,166	447,905	366,393	301,834	64,559	1,227,303	860,910
Ark., 4 est.; Ky., 2; N. C., 2; Tenn., 1	1929	9	20	345	281	140	141	29,178	228,114	198,625	192,750	5,875	515,772	317,147
Mich., 4 est.; Ohio, 1; Wis., 2	1929	7	47	336	713	51	662	199,332	382,120	443,036	415,806	27,730	1,583,073	1,140,037
Other States (Calif., 1 est.; Minn., 2)	1929	3	1	26	16		16	1,970	23,674	12,510	11,936	574	51,170	38,069
States not shown separately	1927	22	108	1,207	2,588	146	2,442	288,893	1,127,861	1,186,957	1,089,887	97,070	3,519,794	2,332,837
	1919	54	139	1,440	1,699	385	1,314	273,113	1,220,591	1,166,759	1,088,028	108,731	3,379,197	2,212,488

* Ark., 4 establishments; Del., 1; Kans., 1; Ky., 4; Maine, 1; Md., 1; Mich., 2; Minn., 1; N. H., 1; Ohio, 1; R. I., 1; Tenn., 1; W. Va., 1; Wis., 2.
* Ark., 6 establishments; Calif., 7; Kans., 2; Ky., 5; La., 1; Maine, 2; Mich., 5; Minn., 5; N. H., 1; Ohio, 6; Okla., 1; R. I., 3; Tenn., 1; Tex., 2; Wash., 3; W. Va., 1; Wis., 3.

TABLE 3.—PRODUCTS, BY CLASS, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1923 TO 1929

(The figures for 1929 refer to sales (shipments or deliveries) by manufacturers; those for earlier years represent production. See GENERAL EXPLANATIONS—Value of Products)

CLASS	1929	1927	1925	1923	CLASS	1929	1927	1925	1923
1. Button industry, all products, total value	\$28,977,919	\$29,130,168	\$32,458,435	\$32,750,190	Buttons, button blanks, molds, etc., all industries—Contd.				
2. Buttons, button blanks, etc., made in the button industry	27,829,747	27,464,870	30,854,406	30,467,576	Buttons—Continued.				
3. Other products, not normally belonging to the industry ¹	1,148,172	1,665,298	1,604,029	2,282,614	Clothing—Continued.				
4. Buttons, molds, etc., made as secondary products in other industries	682,839	273,124	286,457	647,163	Metal—				
Buttons, button blanks, molds, etc., all industries:					Embossed—				
Aggregate value (sum of 2 and 4)	\$28,412,586	\$27,737,994	\$31,140,863	\$31,114,739	Gross	2,843,427	6,356,426	6,105,103	7,623,638
Buttons, total value	\$24,215,203	\$24,883,800	\$27,880,095	\$27,690,156	Value	\$1,209,856	\$2,292,927	\$1,734,638	\$1,942,749
Pearl or shell, fresh-water—					Other metal—				
Clothing—					Gross	4,923,835			
Gross	21,447,983	22,051,963	21,688,298	20,424,726	Value	\$1,070,375			
Value	\$6,894,792	\$7,940,798	\$7,611,824	\$6,952,758	Galalith—				
Shoe ² —					Gross	1,190,062	356,514	(3)	(3)
Gross	558,158	422,566	1,816,789	2,005,261	Value	\$714,500	\$397,706	\$275,918	\$298,173
Value	\$241,770	\$133,049	\$875,505	\$1,180,417	Covered ³ —				
Pearl or shell, ocean—					Gross	1,183,439	716,625	1,685,292	1,014,988
Clothing—					Value	\$759,339	\$559,414	\$916,614	\$626,554
Gross	6,052,399	4,438,652	4,708,417	5,031,437	Composition—				
Value	\$5,251,894	\$3,829,594	\$3,594,332	\$3,292,826	Gross	6,084,188	(4)	7,337,774	5,531,230
Shoe ² —					Value	\$1,112,288	(4)	\$1,272,579	\$715,704
Gross	755,218	664,464	1,437,025	3,108,017	Other buttons ⁴ —				
Value	\$459,139	\$518,856	\$885,995	\$2,398,237	Gross	4,028,790	11,842,985	2,584,009	1,455,985
Shoe, other than pearl or shell ² —					Value	\$836,127	\$1,023,217	\$506,494	\$179,255
Gross	669,710	1,020,950	2,473,039	4,016,423	Button blanks and molds:				
Value	\$119,724	\$194,311	\$349,492	\$497,916	For sale as such—				
Clothing—					Gross	8,095,227	(3)	(3)	(3)
Vegetable-ivory—					Value	\$1,803,641	\$611,770	\$920,637	\$987,653
Gross	6,825,036	9,215,396	11,992,985	9,483,871	Transferred to finishing plants under same ownership—				
Value	\$4,050,212	\$5,704,633	\$7,468,259	\$6,336,743	Gross	7,194,611	(3)	(3)	(3)
Pyroxylin—					Value	\$2,108,011	\$2,226,502	\$2,261,262	\$2,394,282
Gross	391,248	330,888	(5)	(3)	Parts of buttons, backs, etc., for sale as such, value	\$225,731	\$15,922	\$78,869	\$342,648
Value	\$1,182,859	\$1,031,075	\$1,322,793	\$1,737,837					
Horn—									
Gross	1,228,144	1,798,573	1,921,661	3,693,907					
Value	\$228,493	\$337,741	\$507,816	\$1,688,981					
Bone—									
Gross	(6)	(6)	1,090,976	1,617,299					
Value	(6)	(6)	\$296,343	\$395,814					
Glass—									
Gross	114,000	129,075	197,335	52,446					
Value	\$83,745	\$129,459	\$171,490	\$58,132					

¹ Snap fasteners and clasps; pearl, metal, and celluloid novelties; ornaments; buckles; crushed shell for poultry; etc.

	Gross	Value
² Total shoe buttons, 1929	1,983,085	\$820,633
Pearl or shell, fresh-water	558,158	241,770
Pearl or shell, ocean	755,218	459,139
Other than pearl or shell	669,710	119,724

³ Data incomplete.
⁴ Included in figure for "Other buttons" to avoid disclosing output of individual establishments.
⁵ Covered buttons made for sale as such to the trade, not buttons covered to individual order.
⁶ Includes "bone" and collar and cuff.

BUTTONS

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TABLE 4.—PRIME MOVERS, MOTORS, GENERATORS, AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY—NUMBER AND RATED CAPACITY OF PRIME MOVERS AND ELECTRIC MOTORS, 1929, 1927, 1925, 1919, AND 1914, AND OF GENERATORS, 1929, 1927, AND 1925; QUANTITY OF ELECTRIC ENERGY PURCHASED, 1929

TYPE	1929		1927		1925		1919		1914		PER CENT DISTRIBUTION OF RATED HORSEPOWER CAPACITY	
	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	1929	1919
		Horse-power		Horse-power		Horse-power		Horse-power		Horse-power		
Prime movers and electric motors driven by purchased energy, aggregate.....	1,383	14,615	1,283	15,899	1,157	15,840	1,104	15,766	734	14,009	100.0	100.0
Prime movers, total.....	49	4,284	67	5,470	79	6,297	142	7,589	200	10,058	29.3	48.3
Steam, total.....	29	3,564	40	4,681	52	5,553	65	6,275	97	8,858	24.4	39.9
Engines.....	29	3,564	40	4,681	52	5,553	64	5,975	(1)	(1)	24.4	38.0
Turbines.....							1	360	(1)	(1)		1.9
Internal-combustion engines.....	13	279	21	531	20	432	71	1,047	93	826	1.9	6.7
Water wheels and water turbines.....	7	441	6	258	7	312	6	267	10	394	3.0	1.7
Electric motors driven by purchased energy.....	1,334	10,331	1,216	10,429	1,078	9,543	962	8,117	534	3,951	70.7	51.7
Electric motors, total.....	1,386	11,079	1,245	10,969	1,114	10,234	999	8,715	650	5,016	100.0	100.0
Driven by purchased energy.....	1,334	10,331	1,216	10,429	1,078	9,543	962	8,117	534	3,951	93.2	93.1
Driven by energy generated in establishments reporting.....	52	748	29	570	36	691	37	598	116	1,065	6.8	6.9
Electric generators.....	7	Kilowatts 458	4	Kilo- watts 622	7	Kilo- watts 1,046	(2)	(2)	(2)	(2)		
Electric energy purchased ³		Kilowatt- hours 11,071,301		(1)		(1)		(2)		(2)		

¹ Not called for separately on schedule.

² Not called for on schedule.

³ This item covers the consumption of purchased electric energy for all purposes—power, heat, light, etc.

⁴ Data incomplete.

TABLE 5.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1929, 1925, 1919, 1914, AND 1909, AND BY STATES, 1929

[This table presents statistics for only those States for which figures can be given without disclosing data for individual establishments. The sum of the State items in any column is not, therefore, equal to the United States total at the head of the column. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures.]

STATE	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum
		January	February	March	April	May	June	July	August	September	October	November	December	
United States:														
1929.....	9,034	0,338	0,481	0,261	9,069	8,902	8,601	8,380	8,597	8,833	9,166	9,261	9,386	87.9
1925.....	11,513	11,922	12,246	12,831	11,753	11,429	11,154	10,952	11,215	11,056	11,145	11,325	11,619	88.8
1919.....	15,577	14,839	15,051	14,878	14,594	14,859	15,049	15,663	16,238	15,886	16,333	16,878	16,868	86.5
1914.....	14,511	16,451	16,832	16,989	15,874	14,733	13,960	12,482	12,124	13,181	13,790	13,801	13,915	73.8
1909.....	10,427	15,362	16,042	18,356	16,281	16,320	16,400	15,965	16,023	16,478	17,108	17,149	17,841	87.1
Connecticut.....	574	575	567	569	570	577	589	572	564	573	585	587	584	90.1
Illinois.....	312	296	310	328	307	276	265	261	269	291	366	365	405	64.4
Indiana.....	101	101	102	190	193	198	194	188	186	184	191	195	194	93.9
Iowa.....	2,332	2,442	2,620	2,424	2,320	2,269	2,238	2,063	2,120	2,185	2,331	2,427	2,642	78.3
Massachusetts.....	41	27	28	20	30	38	38	45	47	46	52	55	54	49.1
Missouri.....	138	198	194	178	149	130	108	79	77	109	141	134	165	35.4
New Jersey.....	1,380	1,383	1,392	1,441	1,434	1,480	1,398	1,419	1,398	1,416	1,402	1,324	1,196	81.9
New York.....	2,468	2,511	2,558	2,549	2,412	2,429	2,390	2,428	2,509	2,479	2,495	2,474	2,388	93.4
Pennsylvania.....	461	681	508	414	481	481	449	418	468	442	457	475	482	77.9

CARBON PAPER AND INKED RIBBONS

Description of the industry.—This industry embraces establishments engaged primarily in the manufacture of carbon paper for typewriters, sales books, etc., and of inked ribbons for typewriters, adding machines, cash registers, etc.

Statistics for earlier years.—At prior censuses the manufacture of carbon paper and inked ribbons was

treated as a part of the "Typewriters and supplies" industry. A special tabulation of the data reported by establishments engaged primarily in this line of manufacture in 1927 has, however, been made, and the results are presented in Tables 1, 2, 3, and 4 of this report. No comparable figures for earlier years are available.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1929 AND 1927

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers for products, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²	Horsepower
1929	57	1,251	\$1,702,358	\$7,990,753	\$17,295,140	\$9,304,387	3,642
1927	49	1,078	1,514,230	6,019,753	13,793,128	7,773,370	3,207
PER CENT OF INCREASE							
1927-1929	(3)	16.0	12.4	32.7	25.4	19.7	11.5

¹ For 1929, manufacturers' sales (shipments or deliveries); for 1927, production. See GENERAL EXPLANATIONS—Value of Products.

² Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

³ Per cent not computed where base is less than 100.

TABLE 2.—GENERAL STATISTICS, BY STATES: 1929 AND 1927

This table presents statistics separately for each State for which figures can be given without disclosing data for individual establishments, and for the remaining States in groups. Certain of the States for which figures are given in combination with those for others, however, reported larger values of products than some of the States shown separately.

STATE	Census year	Number of establishments	Salaried officers and employees ¹	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products ²	Value added by manufacture ³
					Total	Prime movers	Motors run by purchased energy			Total	Materials and containers	Fuel and purchased energy		
United States	1929	57	509	1,251	3,642	856	2,786	\$1,530,423	\$1,702,358	\$7,990,753	\$7,874,490	\$116,257	\$17,295,140	\$9,304,387
	1927	49	421	1,078	3,267	672	2,595	1,113,835	1,514,230	6,019,753	5,912,993	106,765	13,793,128	7,773,370
Individual States:														
California	1929	4	7	18	55	-----	55	17,176	22,381	100,266	93,708	1,558	180,756	86,490
	1929	9	76	141	334	-----	334	154,586	156,282	825,909	815,066	10,843	1,805,703	979,794
	1927	6	48	95	258	-----	258	72,627	120,643	488,109	479,348	8,851	1,086,319	598,120
New York	1929	23	233	493	1,256	213	1,043	753,329	744,026	3,600,352	3,552,362	56,990	7,214,206	3,604,854
	1927	21	210	460	1,388	25	1,363	613,042	665,842	2,850,364	2,796,002	54,362	6,009,340	3,758,976
Pennsylvania	1929	5	21	34	106	-----	106	61,995	37,604	215,866	210,944	4,922	416,143	200,277
	1927	5	11	24	51	-----	51	22,401	27,430	110,049	116,921	2,128	281,855	162,806
Groups of States:														
Conn., 1 est.; Mass., 3; N. J., 4	1929	8	122	465	1,691	643	1,048	421,006	610,801	2,526,111	2,494,796	31,315	6,151,688	3,625,577
Other States (Colo., 1 est.; Iowa, 1; Mo., 1; Ohio, 4; Oreg., 1)	1929	8	50	100	200	-----	200	122,331	131,264	713,249	702,620	10,629	1,520,644	807,395
States not shown separately ⁴	1927	17	152	499	1,570	647	923	405,765	700,315	2,562,146	2,520,722	41,424	5,815,614	3,253,468

¹ Not including proprietors and firm members, as follows: For 1929, 21; 1927, 20. The total numbers of persons engaged—proprietors and firm members, salaried officers and employees, and wage earners—as reported for the industry, are as follows: For 1929, 1,731; 1927, 1,519.

² For 1929, sales (shipments or deliveries) by manufacturers; for earlier years, production. See GENERAL EXPLANATIONS—Value of Products.

³ Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

⁴ California, 3 establishments; Colorado, 1; Connecticut, 1; Iowa, 1; Massachusetts, 3; Missouri, 1; New Jersey, 4; Ohio, 2; Oregon, 1.

COMBS AND HAIRPINS, NOT MADE FROM METAL OR RUBBER

Description of the industry.—The establishments classified in this industry manufacture, as their principal products, combs, hairpins, barrettes, hair ornaments, comb mountings, etc., made from bone, horn, tortoise shell, celluloid, ivory, and other materials except metal and rubber.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1929

[Data for establishments with products under \$5,000 in value included for 1919 and prior years but not for 1921 and subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers for products, fuel, and purchased electric energy	Value of products ^{1,2}	Value added by manufacture ³	Horsepower
1929	24	656	\$640,857	\$1,000,824	\$2,482,419	\$1,475,595	1,015
1927	36	1,259	1,249,064	1,873,003	4,436,656	2,563,653	1,591
1925	44	1,300	1,292,923	2,333,755	5,270,208	2,936,453	1,892
1923	42	1,144	2,260,504	4,583,022	8,770,153	4,187,131	1,919
1921	38	1,321	1,276,799	2,172,287	4,580,368	2,408,081	(4)
1919	45	2,229	1,809,453	3,168,818	6,566,365	3,397,547	1,588
1914	66	2,773	1,393,369	2,852,823	5,478,196	2,625,373	2,453
1909	81	4,555	2,165,529	3,974,013	8,375,932	4,401,319	4,175
1904	42	1,806	757,057	1,329,627	2,769,380	1,439,753	1,100
1899	34	1,399	572,467	951,514	1,976,129	1,024,615	639
PER CENT OF INCREASE OR DECREASE (—)							
1927-1929	(9)	-47.9	-48.7	-46.2	-44.0	-42.4	-36.2
1925-1927	(9)	-3.2	-3.4	-19.7	-15.8	-12.7	-15.9
1923-1925	(9)	-39.4	-43.0	-49.1	-39.9	-29.9	-1.4
1921-1923	(9)	62.3	77.5	111.0	91.5	73.9	
1919-1921	(9)	-40.7	-29.4	-31.4	-30.2	-20.1	
1910-1929	(9)	-70.6	-64.6	-68.2	-62.2	-56.6	-36.1
1909-1919	(9)	-51.1	-16.4	-20.3	-21.6	-22.8	-62.0
1899-1909	(9)	225.6	278.3	317.7	323.0	329.6	553.4

¹ For 1929, manufacturers' sales (shipments or deliveries); for earlier years, production. See GENERAL EXPLANATIONS—Value of Products.
² Includes value of miscellaneous products, normally belonging to other industries, made as secondary products by establishments engaged primarily in the manufacture of combs and hairpins, as follows: 1929, \$195,213; 1927, \$631,197; 1925, \$492,099; corresponding amounts for earlier years not available. Does not include following values of combs and hairpins, not made from metal or rubber, reported by establishments engaged primarily in other lines of manufacture: 1929, \$653,476; 1927, \$36,610; 1925, \$134,764; 1923, \$348,313; corresponding amounts for earlier years not available.

³ Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.
⁴ Not called for on schedule.
⁵ Per cent not computed where base is less than 100.

TABLE 2.—GENERAL STATISTICS, BY STATES: 1929, 1927, AND 1919

[This table presents statistics separately for the only two States for which figures can be given without disclosing data for individual establishments. Data for establishments with products under \$5,000 in value are included for 1919 but not for subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

STATE	Census year	Number of establishments	Salaried officers and employees ¹	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products ²	Value added by manufacture ³
					Total	Prime movers	Motors run by purchased energy			Total	Materials and containers	Fuel and purchased energy		
United States	1929	24	121	656	1,015	633	382	\$267,983	\$640,857	\$1,000,824	\$974,100	\$32,718	\$2,482,419	\$1,475,595
	1927	36	200	1,259	1,591	685	906	491,550	1,249,064	1,873,003	1,801,895	71,108	4,436,656	2,563,653
	1919	45	208	2,229	1,588	969	619	458,327	1,809,453	3,168,818	3,082,743	86,075	6,566,365	3,397,547
Massachusetts	1929	13	86	531	830	573	263	180,823	505,876	682,975	650,593	20,382	1,772,768	1,089,769
	1927	19	137	960	1,317	625	692	303,265	905,199	1,205,226	1,150,204	55,022	2,937,860	1,732,634
	1919	26	143	1,786	1,262	769	523	356,717	1,424,632	2,534,662	2,462,099	72,563	5,179,469	2,644,807
New York	1929	5	13	36	20	20	20	59,506	41,303	180,524	179,160	1,374	364,967	184,445
	1927	8	35	173	94	44	94	99,085	214,577	482,757	476,203	6,564	1,045,534	562,777
	1919	12	46	230	69	40	29	89,251	193,945	309,245	304,710	4,535	682,537	379,292
Other States	1929	6	22	89	159	60	99	47,654	93,679	143,325	138,363	4,962	344,684	201,359
	1927	9	28	126	180	60	120	68,000	131,288	185,020	175,488	9,532	453,202	265,242
	1919	7	19	233	239	160	79	42,379	190,876	324,911	315,934	8,977	704,359	379,448

¹ Not including proprietors and firm members, as follows: For 1929, 16; 1927, 15; 1919, 38. The total numbers of persons engaged—proprietors and firm members, salaried officers and employees, and wage earners—are as follows: For 1929, 793; 1927, 1,474; 1919, 2,475.
² The figures for 1929 refer to sales (shipments or deliveries) by manufacturers; those for earlier years represent production. See GENERAL EXPLANATIONS—Value of Products.

³ Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.
⁴ Data for purchased power other than electric (power transmitted into the plant by belt or shaft) are included in the State items for 1919 but not in the United States totals.

⁵ Illinois, 2 establishments; New Jersey, 3; Ohio, 1.
⁶ Illinois, 4 establishments; New Jersey, 3; Ohio, 1; Oregon, 1.
⁷ Illinois, 1 establishment; New Jersey, 3; Ohio, 1; Pennsylvania, 1; Rhode Island, 1.

COMBS AND HAIRPINS

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TABLE 3.—PRIME MOVERS, MOTORS, GENERATORS, AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY—NUMBER AND RATED CAPACITY OF PRIME MOVERS AND ELECTRIC MOTORS, 1929, 1927, 1925, 1919, AND 1914, AND OF GENERATORS, 1929; QUANTITY OF ELECTRIC ENERGY PURCHASED, 1929

TYPE	1929		1927		1925		1919		1914		PER CENT DISTRIBUTION OF RATED HORSE-POWER CAPACITY	
	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	1929	1919
Prime movers and electric motors driven by purchased energy, aggregate.....	116	Horse-power 1, 015	179	Horse-power 1, 591	237	Horse-power 1, 892	158	Horse-power 1, 588	163	Horse-power 2, 453	100.0	100.0
Prime movers, total.....	12	833	13	685	16	919	20	969	30	1, 532	62.4	61.0
Steam engines.....	7	428	9	485	13	769	15	867	24	1, 326	42.2	50.8
Internal-combustion engines.....	2	95	1	60	3	150	1	60	2	63	9.4	3.8
Water wheels and water turbines.....	3	110	3	140	3	150	4	102	4	143	10.8	6.4
Electric motors driven by purchased energy.....	104	382	166	906	221	973	138	619	133	921	37.6	39.0
Electric motors, total.....	106	392	166	906	221	973	138	619	134	923	100.0	100.0
Driven by purchased energy.....	104	382	166	906	221	973	138	619	133	921	97.4	100.0
Driven by energy generated in establishments reporting.....	2	10							1	2	2.6	
Electric generators.....	1	Kilowatts 5		Kilowatts		Kilowatts	(¹)	(¹)	(¹)	(¹)		
Electric energy purchased ²		Kilowatt-hours 258, 758		(³)		(³)		(³)		(³)		

¹ Not called for on schedule.

² This item covers the consumption of purchased electric energy for all purposes—power, heat, light, etc.

³ Data incomplete.

TABLE 4.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1929, 1925, 1919, AND 1914, AND BY STATES, 1929

[This table presents statistics for only those States for which figures can be given without disclosing data for individual establishments. The sum of the State items in any column is not, therefore, equal to the United States total at the head of the column. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures.]

STATE	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Percent minimum is of maximum	
		January	February	March	April	May	June	July	August	September	October	November	December		
United States:															
1929.....	656	640	690	695	651	597	606	639	666	664	740	696	651	78.5	
1925.....	1, 300	1, 344	1, 348	1, 227	1, 089	1, 062	1, 024	1, 279	1, 461	1, 575	1, 721	1, 388	1, 147	58.2	
1919.....	2, 229	2, 193	2, 232	2, 327	2, 249	2, 196	2, 180	2, 308	2, 172	2, 191	2, 209	2, 210	2, 251	98.3	
1914 ¹	2, 773	2, 814	2, 939	3, 052	2, 700	2, 502	2, 268	2, 398	2, 774	3, 161	3, 265	2, 781	2, 622	69.5	
Massachusetts.....	531	523	572	568	507	466	479	513	535	538	615	580	470	75.8	
New York.....	36	37	36	39	36	34	34	34	35	36	37	37	37	87.2	

¹ No comparable figures for prior years.

DAIRYMEN'S SUPPLIES; CREAMERY, CHEESE-FACTORY, AND BUTTER-FACTORY EQUIPMENT; AND POULTRYMEN'S AND APIARISTS' SUPPLIES

Description of the industry.—This classification covers three classes of products, namely: (1) Milking machines, cream separators, and accessories; bottle sterilizers and fillers; milk testers and pasteurizers; churns, butter machines, and butter workers; and such supplies as vats, labels, molds, cheese presses and boxes, butter colors, rennet extract, and lactic ferment. (2)

Incubators, brooders, coops, hovers, feeders, poultry fountains, feed cookers, egg testers, etc. (3) Beehives, sections, and honey boxes; comb foundation, smokers, bee veils, queen traps, etc. (Statistics on production and sales of many of these items will be found in the annual report entitled "Manufacture and Sale of Farm Equipment.")

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1904 TO 1929

[Data for establishments with products under \$5,000 in value included for 1919 and prior years but not for 1921 and subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers for products, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²	Horsepower
1929.....	172	5,450	\$6,925,320	\$16,371,116	\$42,246,758	\$25,875,042	13,672
1927.....	152	5,091	6,373,561	15,686,293	36,823,048	21,137,355	13,570
1925.....	180	4,844	5,862,844	15,421,233	37,263,376	21,842,143	14,719
1923.....	192	5,783	6,642,711	17,586,864	39,463,324	21,876,460	14,308
1921.....	180	3,841	4,414,031	13,084,780	27,644,471	14,559,691	(3)
1919.....	244	6,437	7,078,433	18,526,743	37,397,448	18,870,705	11,756
1914.....	236	5,551	3,363,119	9,247,939	18,949,538	9,701,500	11,639
1909.....	233	4,871	2,671,297	6,088,901	15,463,492	9,374,501	6,898
1904 ⁴	176	2,608	1,167,343	3,203,451	6,545,008	3,341,557	3,994
PER CENT OF INCREASE OR DECREASE (—)							
1927-1929.....	13.2	7.1	8.7	4.4	14.7	22.4	0.7
1925-1927.....	-15.6	5.1	8.7	1.7	-1.2	-3.2	-7.8
1923-1925.....	-6.8	-16.2	-11.7	-12.3	-5.6	-0.2	2.9
1921-1923.....	6.7	50.6	50.5	34.4	42.8	50.3	-----
1919-1921.....	-29.2	-40.3	-37.0	-29.4	-26.1	-22.8	-----
1910-1929.....	-29.5	-15.3	-2.2	-11.6	13.0	37.1	16.3
1900-1919.....	4.7	32.1	165.0	204.3	141.8	101.3	70.4

¹ For 1929, manufacturers' sales (shipments or deliveries); for earlier years, production. See GENERAL EXPLANATIONS—Value of Products.

² Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

³ Not called for on schedule.

⁴ No comparable figures for earlier years.

DAIRYMEN'S SUPPLIES, ETC.

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TABLE 2.—GENERAL STATISTICS, BY STATES: 1929, 1927, AND 1919

[This table presents statistics separately for each State for which figures can be given without disclosing data for individual establishments, and for the remaining States in groups. Data for establishments with products under \$5,000 in value are included for 1919 but not for subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

STATE	Census year	Number of establishments	Salaried officers and employees ¹	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products ²	Value added by manufacture ³
					Total	Prime movers	Motors run by purchased energy			Total	Materials and containers	Fuel and purchased energy		
United States	1929	172	1,664	5,450	13,672	2,839	10,833	\$3,816,437	\$6,925,320	\$16,371,116	\$15,903,335	\$467,781	\$42,246,758	\$25,875,642
	1927	162	1,430	5,091	13,576	4,586	8,090	3,352,135	6,373,761	15,686,293	15,302,626	384,267	36,823,648	21,137,355
	1919	244	2,013	6,437	11,766	6,578	5,178	3,694,406	7,078,433	18,526,743	18,135,777	390,966	37,397,448	18,870,705
Individual States:														
California	1929	15	32	105	265	-----	265	64,026	122,174	364,877	360,431	4,446	654,160	285,283
	1927	12	31	89	277	-----	277	60,182	117,385	351,723	347,951	3,772	683,814	332,191
	1919	20	21	97	372	3	369	31,285	102,190	436,130	431,356	4,774	668,885	232,755
Illinois	1929	19	195	980	2,197	30	2,167	591,166	1,099,795	2,460,357	2,379,713	80,644	6,218,915	3,758,561
	1927	15	136	722	1,320	-----	1,320	372,295	817,842	1,800,161	1,760,600	39,501	4,366,674	2,566,573
	1919	26	155	609	820	354	466	291,740	678,932	1,322,530	1,293,061	29,469	3,595,720	2,183,190
Indiana	1929	6	35	199	214	-----	214	82,085	162,014	430,182	421,702	8,480	918,409	488,227
	1927	8	41	247	305	-----	305	94,063	184,291	621,888	609,627	12,261	1,027,152	495,294
	1919	10	50	256	226	6	220	68,000	161,461	375,025	368,065	6,960	729,705	354,680
Iowa	1929	10	128	382	1,349	250	1,099	244,761	425,857	1,142,217	1,097,091	45,126	3,078,555	1,936,138
	1927	11	161	347	1,421	250	1,171	343,169	387,940	1,287,686	1,244,673	43,013	2,818,143	1,530,457
	1919	12	134	434	1,240	550	699	223,957	514,371	1,868,577	1,836,447	32,130	3,176,981	1,308,404
Kansas	1929	4	4	18	62	-----	62	9,500	17,244	49,305	48,735	570	106,916	57,611
	1927	4	5	29	37	-----	37	14,438	33,460	89,565	88,902	663	172,536	82,971
Michigan	1929	9	25	90	150	-----	150	64,717	131,172	317,897	307,749	10,148	674,285	354,388
	1927	9	30	105	176	-----	176	106,848	150,345	468,975	457,777	11,198	1,023,161	554,186
	1919	13	28	125	120	10	101	46,287	118,130	285,593	274,369	11,224	635,464	349,871
Minnesota	1929	11	49	125	298	50	248	86,569	121,267	337,410	327,778	9,632	724,490	387,080
	1927	9	45	99	397	160	247	119,452	125,286	319,555	312,655	6,930	778,481	458,896
	1919	6	65	86	128	50	78	109,711	100,311	316,515	312,119	4,396	764,599	448,384
New Jersey	1929	4	43	143	188	-----	188	196,262	288,267	763,911	757,440	6,471	1,394,061	630,150
	1927	3	43	168	233	-----	233	168,483	318,958	758,338	760,968	7,370	1,546,397	788,069
New York	1929	19	491	1,259	2,375	101	2,274	1,037,428	1,732,863	3,709,277	3,591,630	117,647	10,748,948	7,039,671
	1927	13	335	1,308	3,638	1,921	1,717	883,693	1,653,770	3,229,040	3,113,082	115,958	9,684,348	6,455,398
	1919	34	892	2,450	3,938	2,927	1,011	1,566,501	2,906,042	6,523,806	6,356,874	166,932	14,099,717	8,175,911
Ohio	1929	12	191	676	1,479	630	849	438,865	890,883	2,459,264	2,421,032	38,232	7,014,513	4,355,249
	1927	10	227	649	1,073	299	774	348,693	904,294	2,892,152	2,845,909	46,243	5,966,280	3,064,128
	1919	14	163	445	696	577	119	237,220	429,507	2,056,308	2,042,730	13,578	3,471,513	1,415,065
Pennsylvania	1929	6	78	229	942	555	387	164,436	310,459	466,839	441,937	24,902	1,298,673	831,834
	1927	7	75	374	1,243	840	403	177,356	542,634	722,933	707,738	15,195	1,920,581	1,197,648
	1919	17	126	689	1,287	865	422	207,251	767,868	1,143,549	1,104,067	39,482	2,380,747	1,237,198
Virginia	1929	10	23	99	429	170	259	42,117	86,253	146,331	139,392	6,939	399,469	253,138
Wisconsin	1929	20	277	800	2,321	695	1,716	603,935	1,083,402	2,357,162	2,270,985	86,177	6,322,049	3,974,887
	1927	19	119	437	1,484	630	854	358,963	577,746	1,586,095	1,548,161	37,934	3,489,903	1,913,808
	1919	33	181	501	1,264	311	953	284,072	519,103	1,661,073	1,624,297	36,776	3,065,323	1,404,250
Groups of States:														
Mo., 3 est.; Ark., 1; Okla., 1	1929	5	17	107	263	140	123	42,365	120,287	300,253	296,076	4,177	495,623	195,370
Wash., 3 est.; Oreg., 2	1929	5	5	22	98	-----	98	15,250	27,711	67,730	65,842	1,888	139,309	71,579
Other States (Conn., 2 est.; Ga., 1; Ky., 1; La., 2; Me., 1; Md., 2; Nebr., 2; Tex., 4; Utah, 1; Vt., 1)	1929	17	60	216	1,042	308	734	136,015	298,672	998,104	975,892	22,302	2,052,580	1,054,476
States not shown separately	1927	32	182	517	1,972	496	1,476	313,903	559,610	1,558,212	1,513,963	44,229	3,346,078	1,787,866
	1919	59	248	745	1,656	916	740	447,382	780,518	2,537,637	2,492,392	45,245	4,298,694	1,761,657

¹ Not including proprietors and firm members, as follows: For 1929, 96; 1927, 66; 1919, 164. The total numbers of persons engaged—proprietors and firm members, salaried officers and employees, and wage earners—as reported for the industry, are as follows: For 1929, 7,210; 1927, 6,587; 1919, 8,614.

² The figures for 1929 refer to sales (shipments or deliveries) by manufacturers; those for earlier years represent production. See GENERAL EXPLANATIONS—Value of Products.

³ Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

⁴ Alabama, 1 establishment; Arkansas, 1; Connecticut, 2; Georgia, 1; Kentucky, 1; Louisiana, 1; Maryland, 2; Massachusetts, 1; Missouri, 3; Nebraska, 3; Oklahoma, 1; Oregon, 2; Texas, 2; Utah, 1; Vermont, 1; Virginia, 7; Washington, 2.

⁵ Arkansas, 2 establishments; Colorado, 1; Connecticut, 2; District of Columbia, 1; Georgia, 2; Idaho, 1; Kansas, 2; Maryland, 1; Massachusetts, 4; Missouri, 4; Montana, 1; Nebraska, 5; New Hampshire, 1; New Jersey, 2; Oregon, 3; Tennessee, 4; Texas, 2; Utah, 1; Vermont, 4; Virginia, 11; Washington, 1; West Virginia, 3; and Wyoming, 1.

CENSUS OF MANUFACTURES: 1929

TABLE 3.—PRODUCTS, BY CLASS AND VALUE, FOR THE UNITED STATES: 1929 AND 1927

[The figures for 1929 refer to sales (shipments or deliveries) by manufacturers; those for earlier years represent production. See GENERAL EXPLANATIONS—Value of Products]

CLASS	1929		1927		CLASS	1929		1927	
	Value	Value	Value	Value		Value	Value	Value	Value
1. "Dairymen's supplies; creamery, cheese-factory, and butter-factory equipment; and poultrymen's and apiarists' equipment and supplies" industry, all products, total value.....	\$42,246,768		\$36,823,645		Dairymen's supplies; creamery, cheese-factory, and butter-factory equipment; and poultrymen's and apiarists' equipment and supplies; all industries, aggregate value (sum of 2 and 4).....	\$45,606,890		\$44,236,062	
2. Dairymen's supplies; creamery, cheese-factory, and butter-factory equipment; and poultrymen's and apiarists' equipment and supplies.....	39,439,838		34,442,597		Dairymen's and creamery, cheese-factory, and butter-factory equipment and supplies.....	26,709,534		29,282,803	
3. Other products, not normally belonging to the industry.....	2,806,920		2,381,051		Poultrymen's equipment and supplies.....	16,702,608		13,401,200	
4. Dairymen's supplies; creamery, cheese-factory, and butter-factory equipment; and poultrymen's and apiarists' equipment and supplies; made in other industries.....	6,167,052		9,793,465		Apiarists' equipment and supplies.....	2,194,748		1,651,999	

TABLE 4.—PRIME MOVERS, MOTORS, GENERATORS, AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY—NUMBER AND RATED CAPACITY OF PRIME MOVERS AND ELECTRIC MOTORS, 1929, 1927, 1925, 1919, AND 1914, AND OF GENERATORS, 1929, 1927, AND 1925; QUANTITY OF ELECTRIC ENERGY PURCHASED, 1929

TYPE	1929		1927		1925		1919		1914		PER CENT DISTRIBUTION OF RATED HORSE-POWER CAPACITY	
	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	1929	1919
		Horse-power		Horse-power		Horse-power		Horse-power		Horse-power		
Prime movers and electric motors driven by purchased energy, aggregate.....	2,272	13,672	1,702	13,576	1,726	14,719	896	11,756	616	11,639	100.0	100.0
Prime movers, total.....	35	2,839	38	4,680	46	4,784	95	6,578	158	8,515	20.8	55.9
Steam, total.....	31	2,759	27	4,341	31	4,450	50	6,039	77	6,895	20.2	51.4
Engines.....	31	2,759	25	2,541	27	2,550	41	4,160	(1)	(1)	20.2	35.4
Turbines.....			2	1,800	4	1,900	9	1,879	(1)	(1)		16.0
Internal-combustion engines.....	4	80	10	228	15	334	40	487	69	1,250	0.6	4.1
Water wheels and water turbines.....			1	17			5	52	12	370		0.4
Electric motors driven by purchased energy.....	2,237	10,833	1,664	8,990	1,680	9,935	801	5,178	458	3,124	79.2	44.1
Electric motors, total.....	2,950	14,493	2,401	12,310	2,262	12,652	1,710	10,615	1,056	7,616	100.0	100.0
Driven by purchased energy.....	2,237	10,833	1,664	8,990	1,680	9,935	801	5,178	458	3,124	74.7	48.8
Driven by energy generated in establishments reporting.....	713	3,660	737	3,320	582	2,617	909	5,437	598	4,492	25.3	51.2
Electric generators.....	14	Kilowatts 2,900	13	Kilowatts 2,259	14	Kilowatts 1,882	(?)	(?)	(?)	(?)		
Electric energy purchased ¹		Kilowatt-hours 9,562,299		(?)		(?)		(?)		(?)		

¹ Not called for separately on schedule. ² This item covers the consumption of purchased electric energy for all purposes—power, heat, light, etc.
³ Not called for on schedule. ⁴ Data incomplete.

TABLE 5.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1929, 1925, 1919, 1914, AND 1909, AND BY STATES, 1929

[This table presents statistics for only those States for which figures can be given without disclosing data for individual establishments. The sum of the State items in any column is not, therefore, equal to the United States total at the head of the column. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures]

STATE	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum	
		January	February	March	April	May	June	July	August	September	October	November	December		
United States:															
1929.....	5,450	5,773	5,769	5,856	5,606	5,137	5,133	5,029	5,020	5,167	5,399	5,625	5,881	5,881	85.5
1925.....	4,844	5,161	5,221	5,060	4,682	4,632	4,638	4,610	4,669	4,587	4,831	5,056	5,354	5,354	84.0
1919.....	6,437	6,784	6,523	6,637	6,580	6,209	6,077	6,161	6,168	6,124	6,304	6,625	7,058	7,058	86.0
1914.....	5,531	5,922	6,543	6,788	6,889	6,508	5,551	5,194	4,927	4,780	4,684	4,803	5,298	5,298	69.2
1909.....	4,871	5,039	5,491	5,748	5,683	6,213	4,743	4,389	4,266	4,182	4,365	4,470	4,835	4,835	72.8
California.....	105	128	117	124	105	100	104	76	79	83	103	112	128	128	69.4
Illinois.....	980	1,009	1,111	1,226	1,164	1,058	996	788	744	767	859	898	1,130	1,130	60.5
Indiana.....	199	260	245	211	200	168	159	162	144	160	197	221	257	257	55.4
Iowa.....	352	363	390	413	416	388	337	344	372	395	386	378	400	400	81.0
Kansas.....	18	15	15	16	18	23	21	21	21	22	18	19	19	19	56.5
Michigan.....	90	93	92	95	92	94	84	85	88	87	80	93	93	93	88.4
Minnesota.....	125	129	129	128	122	125	126	131	130	124	119	118	122	122	96.1
New Jersey.....	143	149	148	147	140	133	123	143	149	147	143	142	158	158	77.8
New York.....	1,259	1,291	1,308	1,319	1,248	1,212	1,245	1,262	1,260	1,268	1,265	1,235	1,204	1,204	91.3
Ohio.....	676	849	775	757	710	468	699	597	620	618	674	727	712	712	55.1
Pennsylvania.....	229	212	212	225	234	238	236	246	227	246	229	224	214	214	89.1
Virginia.....	99	106	92	91	88	70	73	75	76	95	131	158	126	126	46.2
Wisconsin.....	800	766	764	763	752	749	753	794	796	835	860	863	898	898	83.4

DENTAL GOODS AND EQUIPMENT

Description of the industry.—The establishments classified in this industry are engaged primarily in the manufacture of such products as dental gold and alloys, artificial teeth, cements and filling materials, and equipment for use in dentists' offices. At previous censuses, data were included for dental laboratories

operating on a custom basis, but such laboratories were not covered by the census for 1929. The figures for 1927, as given in this report, have accordingly been revised by excluding the data for dental laboratories, so as to make them comparable with those for 1929.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1929 AND 1927

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers for products, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²	Horsepower
1929	87	4,559	\$5,359,432	\$17,326,748	\$35,180,165	\$17,853,417	6,216
1927 ³	97	3,759	3,941,289	18,188,584	32,348,979	14,160,395	3,792
PER CENT OF INCREASE OR DECREASE (-)							
1927-1929	(4)	21.3	36.0	-4.7	8.8	26.1	63.9

¹ For 1929, manufacturers' sales (shipments or deliveries); for 1927, production. See GENERAL EXPLANATIONS—Value of Products.
² Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.
³ No comparable figures are available for years prior to 1927. See "Description of the industry," above.
⁴ Per cent not computed where base is less than 100.

TABLE 2.—GENERAL STATISTICS, BY STATES: 1929 AND 1927

[This table presents statistics for all States for which separate figures can be given without disclosing data reported by individual establishments. Certain of the "Other States," however, reported larger values of products than some of the States shown separately]

STATE	Census year	Number of establishments	Salaried officers and employees ¹	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products ²	Value added by manufacture ³
					Total	Prime movers	Motors run by purchased energy			Total	Materials and containers	Fuel and purchased energy		
United States	1929	87	958	4,559	6,216	2,609	3,413	\$2,716,592	\$5,359,432	\$17,326,748	\$17,047,529	\$279,219	\$35,180,165	\$17,853,417
	1927	97	714	3,759	3,792	1,651	2,141	1,657,834	3,941,289	18,188,584	18,035,312	183,272	32,348,979	14,160,395
Colorado	1929	3	1	45	6	—	6	1,200	58,337	81,925	80,871	1,054	165,028	83,109
	1927	4	3	31	160	—	160	4,321	47,095	78,794	78,136	658	153,396	74,462
Illinois	1929	10	33	138	160	—	160	104,180	158,898	1,463,523	1,456,069	7,454	2,008,504	544,981
	1927	12	87	157	176	23	151	157,977	211,584	1,694,331	1,681,219	10,082	2,490,851	793,520
Massachusetts	1929	5	16	90	52	—	52	44,385	84,530	330,501	326,447	4,354	567,615	236,814
	1927	5	23	86	76	—	76	63,542	82,245	471,994	468,778	3,216	745,135	273,141
Michigan	1929	3	7	4	23	—	23	26,290	5,681	19,736	19,114	622	68,453	48,717
Minnesota	1929	3	19	11	52	—	52	60,216	30,520	757,368	752,709	4,599	1,203,306	445,938
	1927	4	23	30	56	—	56	65,303	42,682	473,952	471,143	2,809	730,357	256,405
Missouri	1929	5	8	15	23	—	23	20,891	22,315	213,797	212,305	1,492	300,176	86,379
	1927	6	8	15	19	—	19	14,427	22,566	166,718	165,682	1,030	246,371	79,653
New York	1929	25	545	1,777	4,101	2,230	1,871	1,462,680	2,538,314	9,257,748	9,115,315	122,433	17,177,908	7,940,160
	1927	27	244	802	2,074	1,366	705	490,005	1,134,830	9,294,579	9,210,147	84,432	13,873,591	4,584,012
Ohio	1929	6	84	436	514	125	389	277,518	563,064	834,961	808,269	26,752	2,902,414	2,067,453
	1927	5	94	275	148	—	148	238,631	294,344	984,630	976,228	8,411	2,038,596	1,050,957
Pennsylvania	1929	15	144	1,810	897	248	649	439,634	1,705,128	2,274,257	2,178,576	95,681	7,362,147	5,987,890
	1927	18	129	2,141	833	227	606	346,482	1,888,732	2,566,332	2,507,590	58,742	8,299,657	5,703,325
Other States	1929	12	101	233	388	—	388	270,328	192,345	2,112,632	2,097,854	14,778	3,424,614	1,311,082
	1927	16	103	222	290	33	217	298,133	217,211	2,457,245	2,443,359	13,886	3,799,625	1,341,780

¹ Not including proprietors and firm members, as follows: For 1929, 38; 1927, 61. The total numbers of persons engaged—proprietors and firm members, salaried officers and employees, and wage earners—as reported for the industry, are as follows: For 1929, 5,556; 1927, 4,534.
² For 1929, manufacturers' sales (shipments or deliveries); for 1927, production. See GENERAL EXPLANATIONS—Value of Products.
³ Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.
⁴ Revised. See "Description of the industry," above.
⁵ California, 2 establishments; Connecticut, 2; Delaware, 1; District of Columbia, 1; Nebraska, 1; New Jersey, 2; Oregon, 1; Rhode Island, 1; Texas, 1.
⁶ California, 5 establishments; Connecticut, 1; Delaware, 1; District of Columbia, 1; Iowa, 1; Louisiana, 1; Michigan, 1; Nebraska, 1; New Jersey, 2; Oregon, 1; Texas, 1.

CENSUS OF MANUFACTURES: 1929

TABLE 3.—PRODUCTS, BY CLASS AND VALUE, FOR THE UNITED STATES: 1929 AND 1927

[For 1929, manufacturers' sales (shipments or deliveries); for 1927, production. See GENERAL EXPLANATIONS—Value of Products]

CLASS	1929		1927 ¹	
	Value	Value	Value	Value
1. Dental-goods industry, all products, total value.....	\$35,180,165	\$32,348,979		
2. Dental goods and equipment.....	32,507,032	28,162,200		
3. Other products (not normally belonging to the industry).....	2,673,133	4,186,779		
4. Dental goods and equipment made as secondary products in other industries.....	522,285	379,880		
Dental goods and equipment, all industries, aggregate value (sum of 2 and 4).....	\$33,029,317	\$28,542,080		
Dental gold.....	12,287,031	13,168,083		
Teeth.....	6,092,838	7,636,319		
Dental alloys for amalgams.....	1,318,064			
Dental cements and filling materials, except alloys.....	736,211			
Burrs, drills, broaches, and similar products.....	797,563			
Rubber, waxes, and compounds.....	474,921			
Dental chairs.....	1,177,073			
Equipment units.....	2,008,740			
Other dental goods.....	6,876,286			

¹ Revised. See "Description of the industry," p. 1281.

TABLE 4.—PRIME MOVERS, MOTORS, GENERATORS, AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY—NUMBER AND RATED CAPACITY OF PRIME MOVERS, ELECTRIC MOTORS, AND GENERATORS, 1929 AND 1927; QUANTITY OF ELECTRIC ENERGY PURCHASED, 1929

TYPE	1929		1927 ¹		Per cent distribution of rated horsepower capacity, 1929	TYPE	1929		1927 ¹		Per cent distribution of rated horsepower capacity, 1929
	Number	Capacity	Number	Capacity			Number	Capacity	Number	Capacity	
Prime movers and electric motors driven by purchased energy, aggregate.....	1,533	Horse-power 6,216	1,216	Horse-power 3,792	100.0	Electric motors, total.....	1,834	Horse-power 5,375	1,470	Horse-power 3,733	100.0
Prime movers, total.....	8	2,603	13	1,651	41.9	Driven by purchased energy.....	1,525	3,013	1,203	2,141	67.2
Steam, total.....	7	2,595	6	1,579	41.8	Driven by energy generated in establishments reporting.....	309	1,762	267	1,692	32.8
Engines.....	6	1,795	4	813	28.9	Electric generators.....	6	Kilowatts 1,525	6	Kilowatts 1,150	
Turbines.....	1	800	2	766	12.9	Electric energy purchased ²		Kilowatt-hours 3,712,369		(³)	
Internal-combustion engines.....	1	8	6	64	0.1						
Water wheels and water turbines.....			1	8							
Electric motors driven by purchased energy.....	1,525	3,613	1,203	2,141	58.1						

¹ Revised. See "Description of the industry," p. 1281.

² This item covers the consumption of purchased electric energy for all purposes—power, heat, light, etc.

³ Data incomplete.

TABLE 5.—WAGE EARNERS, BY MONTHS, BY STATES: 1929

[This table presents statistics for only those States for which figures can be given without disclosing data for individual establishments. The sum of the State items in any column is not, therefore, equal to the United States total at the head of the column. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures]

STATE	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum
		January	February	March	April	May	June	July	August	September	October	November	December	
United States: 1929.....	4,559	4,810	4,329	4,402	4,400	4,515	4,633	4,740	4,728	4,581	4,660	4,642	4,610	90.9
Colorado.....	45	53	57	53	52	<i>23</i>	51	54	47	41	37	38	40	40.4
Illinois.....	138	136	138	138	141	138	135	135	<i>131</i>	136	141	141	144	93.1
Massachusetts.....	90	<i>71</i>	83	80	80	86	95	93	97	96	100	105	91	67.0
Michigan.....	4	4	4	4	4	4	4	4	4	4	4	4	4	
Minnesota.....	11	11	11	11	11	11	11	11	11	11	11	11	11	
Missouri.....	15	<i>14</i>	14	14	15	15	16	15	15	15	15	16	15	87.5
New York.....	1,777	1,616	1,647	1,734	1,763	1,797	1,847	1,891	1,879	1,726	1,814	1,813	1,707	85.5
Ohio.....	436	415	414	443	440	430	432	468	466	459	445	413	403	86.1
Pennsylvania.....	1,810	1,772	<i>1,748</i>	1,748	1,747	1,774	1,802	1,836	1,842	1,860	1,861	1,863	1,868	93.3

FANCY AND MISCELLANEOUS ARTICLES, NOT ELSEWHERE CLASSIFIED

Description of the industry.—The principal products of this industry are beaded articles, celluloid novelties, art novelties, holiday goods, photo jewelry and buttons, inlaid veneer work, silk watch chains, burnt-wood articles, lamp shades, bric-a-brac, composition

ornaments, needle and pin books, and decalcomania work (not on china or glass). Many miscellaneous small articles not covered by distinct classifications are also included.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1929

[Data for establishments with products under \$5,000 in value included for 1919 and prior years but not for 1921 and subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size.]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers for products, fuel, and purchased electric energy	Value of products ^{1,2}	Value added by manufacture ³	Horsepower
1929.....	814	18,722	\$19,040,511	\$35,139,854	\$85,388,961	\$50,249,107	11,071
1927.....	595	10,965	18,306,510	34,673,611	83,006,431	48,332,520	10,802
1925.....	532	14,552	14,959,902	29,154,685	69,769,149	40,614,464	9,071
1923.....	542	13,522	13,713,306	28,531,483	63,208,279	34,676,796	8,098
1921.....	509	11,534	11,088,390	24,384,061	51,406,493	27,022,402	(1)
1919.....	661	13,961	12,207,913	32,561,073	64,054,481	31,463,408	8,657
1914.....	493	7,399	3,666,900	8,428,916	17,658,770	9,229,854	4,465
1909.....	361	6,729	2,464,030	5,423,822	12,390,840	6,607,018	3,219
1904.....	327	6,024	2,545,098	4,826,719	11,961,513	7,134,794	3,027
1899.....	392	5,718	1,921,578	4,061,400	9,046,342	4,984,642	2,329
PER CENT OF INCREASE OR DECREASE (—)							
1927-1929.....	36.8	10.4	4.0	1.3	2.9	4.0	2.5
1925-1927.....	11.8	16.6	22.4	18.9	19.0	19.0	19.1
1923-1925.....	-1.8	7.6	9.1	2.2	10.4	17.1	12.0
1921-1923.....	6.5	17.2	23.7	17.0	23.0	28.3	-----
1919-1921.....	-23.0	-17.4	-9.2	-25.2	-19.7	-14.1	-----
1919-1929.....	23.1	34.1	56.0	7.8	33.3	59.7	27.9
1909-1919.....	33.1	107.5	305.4	500.9	417.0	351.6	168.9
1899-1909.....	-7.9	17.7	28.2	33.5	37.0	32.8	33.2

¹For 1929, manufacturers' sales (shipments or deliveries); for earlier years, production. See GENERAL EXPLANATIONS—Value of Products.

²Includes value of miscellaneous products, normally belonging to other industries, made as secondary products by establishments engaged primarily in the manufacture of fancy and miscellaneous articles, as follows: 1929, \$2,712,521; 1927, \$5,700,842; 1925, \$5,561,767; corresponding amounts for earlier years not available. Does not include following values of fancy and miscellaneous articles, normally belonging to this industry, reported as secondary products by establishments engaged primarily in other lines of manufacture: 1929, \$9,662,936; 1927, \$10,109,138; 1925, \$8,477,206; 1923, \$6,980,310; 1921, \$6,240,447; 1919, \$5,755,665; corresponding amounts for earlier years not available.

³Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

⁴Not called for on schedule.

CENSUS OF MANUFACTURES: 1929

TABLE 2.—GENERAL STATISTICS, BY STATES: 1929, 1927, AND 1919

[This table presents statistics separately for each State for which figures can be given without disclosing data for individual establishments, and for the remaining States in groups. Data for establishments with products under \$5,000 in value are included for 1919 but not for subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

STATE	Census year	Number of establishments	Salaried officers and employees ¹	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products ²	Value added by manufacture ³
					Total	Prime movers	Motors run by purchased energy			Total	Materials and containers	Fuel and purchased energy		
United States	1929	814	2,775	18,722	11,071	724	10,347	\$7,672,200	\$19,040,511	\$35,139,854	\$34,501,366	\$638,488	\$85,388,961	\$50,240,107
	1927	595	2,867	16,965	10,802	1,368	9,490	6,815,477	18,306,510	34,673,611	34,006,624	606,624	83,006,431	48,332,820
	1919	661	2,573	13,961	8,657	2,543	6,114	5,622,193	12,207,913	32,591,073	32,104,379	426,694	64,054,481	31,463,408
Individual States:														
California	1929	55	104	701	213	-----	213	244,737	618,960	1,171,089	1,161,283	9,806	2,712,641	1,541,552
	1927	42	114	593	210	-----	210	268,940	548,585	1,149,033	1,138,741	11,192	2,550,305	1,406,462
	1919	26	34	240	131	-----	131	47,064	170,224	289,261	286,220	3,041	702,371	413,110
Connecticut	1929	10	118	1,247	1,776	65	1,711	323,399	1,360,381	1,256,227	1,187,170	69,057	3,870,110	2,613,883
	1927	11	54	508	273	115	158	121,025	520,902	677,149	654,743	22,406	1,650,104	981,955
	1919	10	78	504	631	457	174	240,917	426,548	1,840,068	1,815,613	30,455	3,520,650	1,674,591
Illinois	1929	60	287	1,604	739	-----	739	738,716	1,688,263	3,726,707	3,676,355	50,352	8,216,494	4,480,787
	1927	76	292	1,825	848	-----	848	771,588	1,833,724	3,998,415	3,947,418	50,997	9,194,540	5,196,125
	1919	54	181	907	230	-----	230	395,109	725,793	2,474,454	2,457,532	16,922	4,793,423	2,204,069
Indiana	1929	5	11	40	121	-----	121	25,732	34,847	35,284	32,928	2,356	143,633	108,349
Iowa	1929	4	10	59	110	-----	110	21,620	38,806	52,860	50,248	2,612	162,821	109,061
Kentucky	1929	5	22	162	84	12	72	56,561	118,570	263,415	259,135	4,280	526,495	263,080
	1927	3	6	37	27	12	15	8,286	35,009	54,631	52,925	1,706	142,413	87,782
	1919	4	6	30	47	-----	47	7,748	23,825	30,103	28,615	1,488	86,912	50,809
Massachusetts	1929	53	284	2,102	1,419	379	1,040	809,972	1,977,630	3,128,739	3,062,479	66,260	8,265,554	5,136,815
	1927	48	269	2,346	2,594	397	2,197	524,015	2,518,869	4,280,139	4,168,248	111,891	9,078,376	4,798,237
	1919	39	272	1,929	2,473	393	2,080	497,403	1,692,386	4,488,759	4,358,917	120,842	7,931,966	3,443,237
Michigan	1929	12	20	221	171	-----	171	61,977	179,760	427,500	417,447	10,113	918,895	491,335
	1927	9	48	264	215	-----	215	96,000	263,730	410,695	399,637	11,058	1,024,959	614,264
	1919	8	34	117	27	-----	27	43,109	71,012	188,887	185,973	2,914	399,221	210,334
Minnesota	1929	6	18	177	37	-----	37	42,093	118,673	289,052	283,064	6,588	733,772	444,120
	1927	(⁴)	(⁵)	(⁶)	(⁷)	-----	(⁸)	(⁹)	(¹⁰)	(¹¹)	(¹²)	(¹³)	(¹⁴)	(¹⁵)
	1919	5	45	91	12	-----	12	79,147	55,455	126,563	126,193	370	331,016	204,453
Missouri	1929	10	26	158	75	-----	75	69,697	122,964	196,856	191,929	4,927	543,386	346,530
	1927	6	18	168	36	-----	36	52,548	91,435	180,982	179,228	1,754	479,348	298,368
	1919	6	7	17	6	-----	6	7,470	10,927	33,712	33,463	219	65,340	31,637
Nebraska	1929	3	8	33	18	-----	18	14,188	33,159	51,440	50,512	928	148,827	97,387
	1927	3	17	77	28	-----	28	30,471	44,706	81,960	81,117	849	257,003	175,037
New Hampshire	1929	3	8	83	105	-----	105	21,611	88,195	56,158	50,491	4,667	230,476	175,318
New Jersey	1929	32	296	1,724	1,505	110	1,395	1,033,541	2,002,669	2,878,310	2,781,318	96,992	9,264,876	6,386,566
	1927	35	274	1,467	1,206	250	956	755,569	1,653,673	2,629,034	2,536,355	92,679	7,613,980	4,984,946
	1919	65	267	1,501	2,067	518	1,349	669,794	1,594,902	2,776,508	2,705,768	70,745	6,220,604	3,444,096
New York	1929	376	1,072	6,603	3,110	163	3,007	3,193,240	7,466,326	16,119,066	15,898,454	220,612	36,056,870	19,937,894
	1927	253	916	5,306	2,806	285	2,521	2,341,808	6,704,121	13,600,334	13,413,670	186,655	30,706,412	17,106,078
	1919	345	1,125	5,943	1,649	587	1,062	2,650,349	5,730,218	16,445,191	16,342,433	102,758	30,949,260	14,504,069
Ohio	1929	16	43	234	52	-----	52	109,586	190,337	433,234	433,234	5,845	1,169,996	730,917
	1927	11	342	965	732	-----	732	625,409	1,215,213	2,013,394	1,991,808	21,586	6,126,011	4,112,617
Pennsylvania	1929	55	186	1,483	567	-----	567	513,400	1,315,138	2,637,072	2,604,736	32,336	5,883,672	3,246,600
	1927	37	156	611	428	130	298	441,317	781,333	1,972,568	1,952,465	20,103	4,211,172	2,238,604
	1919	38	67	613	239	30	209	171,642	326,028	1,096,623	1,079,011	17,612	2,168,938	1,022,315
Rhode Island	1929	31	135	1,350	380	-----	380	362,025	1,079,902	1,239,251	1,211,217	28,034	3,611,186	2,371,935
	1927	20	101	1,174	271	-----	271	285,557	906,212	1,456,126	1,424,658	31,468	3,504,676	2,048,550
	1919	15	84	343	203	-----	203	192,250	274,726	670,986	655,099	15,287	1,316,530	645,550
Washington	1929	4	4	23	6	-----	6	3,529	17,636	41,504	41,010	488	123,069	81,565
	1927	(⁴)	(⁵)	(⁶)	(⁷)	-----	(⁸)	(⁹)	(¹⁰)	(¹¹)	(¹²)	(¹³)	(¹⁴)	(¹⁵)
	1919	3	-----	9	1	-----	1	-----	10,113	7,810	7,652	188	52,778	44,968
Wisconsin	1929	11	40	349	381	-----	381	135,418	271,119	600,481	586,914	13,567	1,294,938	694,437
	1927	9	23	219	263	-----	263	47,075	197,884	447,522	451,800	4,278	925,640	473,840
	1919	5	13	121	49	-----	49	32,030	60,368	154,304	151,127	3,177	349,184	194,880
Groups of States:														
Ala., 1 est.; Fla., 3.	1929	4	6	30	17	-----	17	0,050	20,426	17,738	17,104	574	100,488	82,750
Del., 1 est.; D. C., 1;	1929	11	30	206	112	55	57	69,332	133,693	282,708	277,161	5,547	577,322	294,614
Md., 9.	1929	3	1	26	1	-----	1	1,560	26,021	33,726	33,470	250	101,882	68,156
La., 1 est.; Okla., 1;	1929	6	23	101	72	-----	72	110,625	136,056	195,932	193,335	2,297	731,558	535,626
Tex., 1.	1929	6	23	101	72	-----	72	110,625	136,056	195,932	193,335	2,297	731,558	535,626
Other States (Colo.,	1929	6	23	101	72	-----	72	110,625	136,056	195,932	193,335	2,297	731,558	535,626
2 est.; Me., 2;	1929	6	23	101	72	-----	72	110,625	136,056	195,932	193,335	2,297	731,558	535,626
N. C., 1; Ore., 1).	1929	6	23	101	72	-----	72	110,625	136,056	195,932	193,335	2,297	731,558	535,626
States not shown sep-	1927	32	237	1,105	836	114	722	504,840	991,064	1,716,445	1,678,443	38,002	5,582,402	3,815,657
arately	1919	39	360	1,291	1,217	558	659	627,601	1,026,298	1,961,844	1,930,138	31,706	5,290,234	3,328,390

¹ Not including proprietors and firm members, as follows: For 1929, 472; 1927, 467; 1919, 606. The total numbers of persons engaged—proprietors and firm members, salaried officers and employees, and wage earners—are as follows: For 1929, 21,999; 1927, 20,299; 1919, 17,140.

² The figures for 1929 refer to sales (shipments or deliveries) by manufacturers; those for earlier years represent production. See GENERAL EXPLANATIONS—Value of Products.

³ Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

⁴ Data for purchased power other than electric (power transmitted into the plant by belt or shaft) are included in the State items for 1919 but not in the United States totals.

⁵ Withheld from publication in order to avoid disclosing data for individual establishments.

⁶ Colorado, 1 establishment; District of Columbia, 1; Indiana, 4; Iowa, 2; Louisiana, 1; Maine, 3; Maryland, 5; Minnesota, 7; New Hampshire, 2; North Carolina, 1; Oregon, 1; Tennessee, 2; Texas, 1; Washington, 1.

⁷ Colorado, 2 establishments; District of Columbia, 1; Florida, 1; Georgia, 1; Indiana, 2; Louisiana, 1; Maine, 1; Maryland, 5; New Hampshire, 1; Ohio, 15; Oregon, 2; Tennessee, 1; Vermont, 4; Virginia, 1.

FANCY AND MISCELLANEOUS ARTICLES

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TABLE 3.—PRIME MOVERS, MOTORS, GENERATORS, AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY—NUMBER AND RATED CAPACITY OF PRIME MOVERS AND ELECTRIC MOTORS, 1929, 1927, 1925, 1919, AND 1914, AND OF GENERATORS, 1929, 1927, AND 1925; QUANTITY OF ELECTRIC ENERGY PURCHASED, 1929

TYPE	1929		1927		1925		1919		1914		PER CENT DISTRIBUTION OF RATED HORSE-POWER CAPACITY	
	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	1929	1919
Prime movers and electric motors driven by purchased energy, aggregate	4,111	Horse-power 11,071	3,195	Horse-power 10,802	2,543	Horse-power 9,071	1,426	Horse-power 8,657	767	Horse-power 4,465	100.0	100.0
Prime movers, total	21	724	27	1,303	33	1,608	56	2,543	80	2,507	0.5	29.4
Steam engines	18	677	17	1,113	20	1,388	24	1,834	29	1,794	6.1	21.2
Internal-combustion engines	1	5	6	118	9	136	15	282	44	510	(1)	3.3
Water wheels and water turbines	2	42	4	72	4	84	14	427	7	194	0.4	4.9
Electric motors driven by purchased energy	4,090	10,347	3,168	9,499	2,510	7,463	1,370	6,114	687	1,958	93.5	70.6
Electric motors, total	4,175	10,516	3,248	9,736	2,531	7,600	1,422	6,343	725	2,121	100.0	100.0
Driven by purchased energy	4,090	10,347	3,168	9,499	2,510	7,463	1,370	6,114	687	1,958	98.4	96.4
Driven by energy generated in establishments reporting	85	169	80	237	21	137	52	229	41	163	1.6	3.6
Electric generators	7	Kilowatts 163 Kilowatt-hours	7	Kilowatts 262	4	Kilowatts 416	(2)	(2)	(2)	(2)		
Electric energy purchased ³		10,512,604		(4)		(4)		(4)		(4)		

¹ Less than one-tenth of 1 per cent.
² Not called for on schedule.
³ This item covers the consumption of purchased electric energy for all purposes—power, heat, light, etc.
⁴ Data incomplete.

TABLE 4.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1929, 1925, 1919, AND 1914, AND BY STATES, 1929

[This table presents statistics for only those States for which figures can be given without disclosing data for individual establishments. The sum of the State items in any column is not, therefore, equal to the United States total at the head of the column. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures]

STATE	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum	
		January	February	March	April	May	June	July	August	September	October	November	December		
United States:															
1929	18,722	<i>17,269</i>	17,916	18,103	17,640	17,397	17,337	17,996	19,089	20,267	21,385	21,219	19,041	80.8	
1925	14,552	<i>13,862</i>	13,812	13,649	13,062	<i>12,500</i>	12,534	12,983	14,694	16,125	17,564	17,623	16,196	70.9	
1919	13,981	<i>11,871</i>	12,058	12,643	13,473	13,514	13,762	14,271	14,620	14,859	15,137	15,464	15,660	75.8	
1914 ¹	7,399	<i>6,612</i>	7,048	7,102	7,124	7,251	7,280	7,292	7,548	8,075	8,318	7,892	7,246	79.5	
California	701	<i>618</i>	658	669	654	651	664	682	686	726	802	842	759	72.5	
Connecticut	1,247	<i>1,167</i>	1,145	1,176	1,220	1,265	1,264	1,285	1,285	1,366	1,389	1,307	1,091	78.5	
Illinois	1,604	<i>1,552</i>	1,569	1,620	1,563	1,400	<i>1,246</i>	1,489	1,672	1,769	1,833	1,825	1,579	73.4	
Indiana	40	<i>39</i>	35	33	33	31	28	38	38	51	52	51	45	53.8	
Iowa	59	<i>41</i>	32	32	40	43	40	69	78	85	93	83	71	34.4	
Kentucky	169	<i>128</i>	136	132	128	129	127	177	168	190	222	224	182	56.7	
Massachusetts	2,102	<i>1,018</i>	1,850	<i>1,842</i>	1,864	1,861	1,993	2,092	2,198	2,460	2,515	2,469	2,160	73.2	
Michigan	221	<i>160</i>	168	176	230	235	246	237	229	231	250	255	242	68.8	
Minnesota	177	<i>85</i>	158	161	110	112	109	205	217	276	326	326	242	26.1	
Missouri	158	<i>117</i>	128	131	121	118	190	186	185	193	201	181	144	58.2	
Nebraska	33	<i>31</i>	30	38	34	32	33	32	31	30	33	33	33	78.9	
New Hampshire	83	<i>43</i>	45	45	99	106	99	83	101	104	97	93	83	40.6	
New Jersey	1,724	<i>1,474</i>	1,563	1,670	1,659	1,608	1,605	1,721	1,800	1,882	1,976	1,994	1,781	73.9	
New York	6,003	<i>6,476</i>	6,583	6,480	6,244	6,169	6,129	6,205	6,584	6,902	7,301	7,244	6,933	83.8	
Ohio	234	<i>236</i>	241	248	237	226	219	269	214	234	254	250	243	82.3	
Pennsylvania	1,483	<i>1,272</i>	1,504	1,607	1,378	1,293	1,290	1,314	1,503	1,631	1,725	1,735	1,551	73.3	
Rhode Island	1,856	<i>1,291</i>	1,339	1,336	1,297	1,356	1,278	1,318	1,331	1,407	1,585	1,541	1,242	76.4	
Washington	23	<i>16</i>	16	16	17	17	18	21	25	29	35	40	32	40.0	
Wisconsin	349	<i>318</i>	354	347	338	364	364	365	361	357	348	351	324	87.1	

¹ No comparable figures for prior years.

FEATHERS, PLUMES, AND MANUFACTURES THEREOF

Description of the industry.—The establishments principally from feathers, plumes, and quills, and in this industry are engaged in the preparation of curling, dyeing, and renovating ostrich and other plumes and the manufacture of fancy articles made feathers.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1909 TO 1929

[Data for establishments with products under \$5,000 in value included for 1919 and prior years but not for 1921 and subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers for products, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²	Horsepower
1929.....	39	257	\$309,693	\$386,356	\$1,141,418	\$755,062	100
1927.....	38	322	396,683	534,149	1,438,441	904,292	103
1925.....	70	683	976,304	1,880,708	4,179,093	2,298,355	334
1923.....	131	1,712	1,969,327	3,399,735	7,806,492	4,406,757	410
1921.....	335	2,064	2,145,013	4,298,325	8,886,540	4,588,215	(³)
1919.....	216	3,504	3,405,765	6,694,596	15,377,953	8,683,357	502
1917.....	239	4,483	1,988,004	6,102,515	11,450,521	5,348,006	308
1909 ⁴	187	6,181	2,233,518	9,009,740	14,930,120	5,029,380	167
PER CENT OF INCREASE OR DECREASE (—)							
1927-1929.....	(⁵)	-20.2	-21.0	-27.7	-20.6	-16.5	-2.9
1925-1927.....	(⁶)	-63.7	-59.4	-71.6	-65.6	-60.7	-68.2
1923-1925.....	-46.6	-48.1	-50.4	-44.7	-46.9	-48.5	-18.5
1921-1923.....	-3.0	-17.1	-8.2	-20.9	-11.5	-2.6	-----
1919-1921.....	-37.5	-41.1	-37.0	-35.3	-42.2	-47.2	-----
1919-1929.....	-81.9	-92.7	-90.9	-94.2	-92.6	-91.3	-80.1
1909-1919.....	15.5	-32.4	52.5	-25.7	2.9	40.4	200.6

¹ For 1929, manufacturers' sales (shipments or deliveries); for earlier years, production. See GENERAL EXPLANATIONS—Value of Products.
² Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.
³ Not called for on schedule.
⁴ No comparable figures for prior years.
⁵ Per cent not computed where base is less than 100.

TABLE 2.—GENERAL STATISTICS, BY STATES: 1929, 1927, AND 1919

New York is the only State for which figures can be given separately without disclosing data for individual establishments. Data for establishments with products under \$5,000 in value are included for 1919 but not for subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

STATE	Census year	Number of establishments	Salaried officers and employees ¹	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products ²	Value added by manufacture ³
					Total	Prime movers	Motors run by purchased energy			Total	Materials and containers	Fuel and purchased energy		
United States.....	1929	39	52	257	100	36	64	\$127,144	\$309,693	\$386,356	\$379,629	\$6,727	\$1,141,418	\$755,062
	1927	38	62	322	103	3	100	139,102	396,683	534,149	524,454	9,695	1,438,441	904,292
	1919	216	481	3,504	502	273	229	1,023,964	3,405,765	6,694,596	6,658,588	36,008	15,377,953	8,683,357
New York.....	1929	34	44	231	60	1	59	99,967	281,062	341,009	336,033	4,976	988,616	647,607
	1927	34	56	300	90	3	87	117,418	377,865	503,678	494,762	8,916	1,327,514	823,836
	1919	191	431	3,200	309	10	299	942,714	3,186,044	6,354,512	6,323,527	30,985	14,310,683	7,956,171
Other States.....	⁴ 1929	5	8	26	40	35	5	27,177	28,631	45,347	43,596	1,751	152,802	107,455
	⁶ 1927	4	6	22	13	-----	13	21,684	18,818	30,471	20,692	779	110,927	80,456
	⁷ 1919	25	50	304	285	263	22	81,250	219,721	340,084	335,061	5,023	1,067,270	727,186

¹ Not including proprietors and firm members, as follows: For 1929, 23; 1927, 32; 1919, 239. The total numbers of persons engaged—proprietors and firm members, salaried officers and employees, and wage earners—are as follows: For 1929, 332; 1927, 416; 1919, 4,224.
² The figures for 1929 refer to sales (shipments or deliveries) by manufacturers; those for earlier years represent production. See GENERAL EXPLANATIONS—Value of Products.
³ Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.
⁴ Data for purchased power other than electric (power transmitted into the plant by belt or shaft) are included in the State items for 1919 but not in the United States totals.
⁵ California, 2 establishments; Illinois, 2; Washington, 1.
⁶ California, 2 establishments; Illinois, 1; Pennsylvania, 1.
⁷ California, 6 establishments; Illinois, 2; Indiana, 1; Missouri, 2; New Jersey, 7; Pennsylvania, 6; Washington, 1.

FEATHERS, PLUMES, AND MANUFACTURES THEREOF

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TABLE 3.—PRIME MOVERS, MOTORS, AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY—NUMBER AND RATED CAPACITY OF PRIME MOVERS AND ELECTRIC MOTORS, 1929, 1927, 1925, 1919, AND 1914; QUANTITY OF ELECTRIC ENERGY PURCHASED, 1929

TYPE	1929		1927		1925		1919		1914		PER CENT DISTRIBUTION OF RATED HORSEPOWER CAPACITY	
	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	1929	1919
Prime movers and electric motors driven by purchased energy, aggregate	61	<i>Horsepower</i> 100	43	<i>Horsepower</i> 103	80	<i>Horsepower</i> 334	172	<i>Horsepower</i> 502	144	<i>Horsepower</i> 308	100.0	100.0
Prime movers, total	2	36	1	3	5	54	4	273	12	128	36.0	54.4
Steam engines	2	36					2	260	8	93	36.0	51.8
Internal-combustion engines			1	3	5	54	2	13	4	35		2.6
Electric motors driven by purchased energy	59	64	42	100	75	260	168	229	132	180	64.0	45.6
Electric motors, total	59	64	42	100	75	260	180	394	132	180	100.0	100.0
Driven by purchased energy	59	64	42	100	75	260	168	229	132	180	100.0	68.1
Driven by energy generated in establishments reporting							12	165				41.9
Electric energy purchased ¹		<i>Kilowatt-hours</i> 75,472		(²)		(²)		(²)		(²)		

¹ This item covers the consumption of purchased electric energy for all purposes—power, heat, light, etc.

² Data incomplete.

³ Not called for on schedule.

TABLE 4.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1929, 1925, 1919, AND 1914, AND FOR NEW YORK, 1929

[This table presents statistics for the only State for which figures can be given without disclosing data for individual establishments. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures.]

STATE	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum
		January	February	March	April	May	June	July	August	September	October	November	December	
United States:														
1929	257	<i>191</i>	205	230	277	257	252	255	287	295	289	290	260	65.2
1925	858	958	946	989	945	844	808	864	909	912	919	807	753	76.1
1919	3,504	3,105	3,322	3,601	3,804	3,701	3,533	3,636	3,645	3,650	3,415	3,253	3,263	81.0
1914 ¹	4,483	4,285	4,784	4,725	4,628	4,288	4,058	4,239	4,662	5,391	4,856	4,051	3,829	71.0
New York	231	<i>165</i>	178	202	249	229	226	223	262	267	264	266	236	61.8

¹ No comparable figures for prior years.

FOUNDRY SUPPLIES

Description of the industry.—This industry classification embraces establishments engaged primarily in the manufacture of foundry facings, cement for castings, core oils and compounds, chaplets, wax, flux, "parting" composition, flasks, sieves, pipe blacking, and plumbago. Facings and supplies made by foundries for their own use are not, as a rule, reported separately, and therefore are not covered by the statistics for this industry.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1929

[Data for establishments with products under \$5,000 in value included for 1919 and prior years but not for 1921 and subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers for products, fuel, and purchased electric energy	Value of products ^{1,2}	Value added by manufacture ³	Horsepower
1920	59	853	\$1,255,501	\$5,534,548	\$10,458,589	\$4,924,041	9,306
1927	65	941	1,200,141	6,539,050	11,635,060	5,096,010	11,133
1925	66	1,087	1,360,219	6,903,678	12,723,120	5,819,442	10,733
1923	64	966	1,162,068	4,822,611	10,247,864	5,425,253	7,736
1921	50	567	676,241	2,775,014	4,965,078	2,190,604	(4) 7,736
1919	76	906	1,032,029	5,667,236	9,954,076	4,287,440	6,327
1914	57	555	300,775	997,315	2,012,896	1,015,581	4,689
1909	49	464	276,201	1,271,890	2,297,690	1,025,804	4,865
1904	34	315	156,401	624,812	1,058,834	424,022	3,418
1899	30	278	135,877	628,160	1,128,856	500,696	3,365
PER CENT OF INCREASE OR DECREASE (—)							
1927-1929	(4)	-9.4	4.6	-15.4	-10.1	-3.4	-15.6
1925-1927	(4)	-13.4	-11.8	-5.3	-8.6	-12.4	3.7
1923-1925	(4)	12.5	17.1	43.2	24.2	7.3	38.7
1921-1923	(4)	70.4	71.8	73.8	106.4	147.7	-----
1919-1921	(4)	-37.4	-34.5	-51.0	-50.1	-48.9	-----
1919-1929	(4)	-5.9	21.7	-2.3	5.1	14.8	48.5
1909-1919	(4)	95.3	273.7	345.6	333.2	318.0	30.1
1899-1909	(4)	66.9	103.3	102.5	103.5	104.9	44.6

¹ For 1929, manufacturers' sales (shipments or deliveries); for earlier years, production. See GENERAL EXPLANATIONS—Value of Products.

² Includes values of miscellaneous products, normally belonging to other industries, made as secondary products by establishments engaged primarily in the manufacture of foundry supplies, as follows: 1929, \$662,017; 1927, \$1,332,296; 1925, \$1,375,466; corresponding amounts for earlier years not available. Does not include following values of foundry supplies made as secondary products by establishments classified in other industries: 1929, \$2,370,963; 1927, \$1,215,294; 1925, \$1,080,801; 1923, \$1,501,894; 1921, \$541,145; 1919, \$209,580.

³ Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

⁴ Not called for on schedule.

⁵ Per cent not computed where base is less than 100.

FOUNDRY SUPPLIES

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TABLE 2.—GENERAL STATISTICS, BY STATES: 1929, 1927, AND 1919

(This table presents statistics separately for each State for which figures can be given without disclosing data for individual establishments, and for the remaining States in groups. Data for establishments with products under \$5,000 in value are included for 1919 but not for subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size)

STATE	Cen- sus year	Num- ber of estab- lish- ments	Sala- ried offi- cers and em- ploy- ees ¹	Wage earn- ers (aver- age for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products ²	Value added by manu- facture ³
					Total	Prime movers	Motors run by pur- chased energy			Total	Materials and containers	Fuel and pur- chased energy		
United States.....	1929	59	288	853	9,396	2,700	6,696	\$986,500	\$1,255,801	\$5,534,548	\$5,324,665	\$269,083	\$10,458,589	\$4,924,041
	1927	65	412	941	11,133	4,186	6,947	1,066,313	1,290,141	6,539,050	6,313,458	225,592	11,635,060	5,096,010
	1919	76	402	900	6,327	3,420	2,907	887,522	1,032,029	5,667,236	5,477,047	190,189	9,954,676	4,287,440
Individual States:														
Illinois.....	1929	13	50	164	2,259	-----	2,259	162,008	248,833	1,388,118	1,305,279	82,839	2,528,719	1,140,601
	1927	9	74	119	951	6	945	163,425	180,226	1,184,408	1,162,640	21,768	2,207,672	1,023,264
	1919	9	87	148	633	450	183	244,682	181,172	1,385,179	1,354,604	30,675	2,241,823	856,044
Michigan.....	1929	4	34	112	374	-----	374	162,615	215,152	556,652	539,602	17,050	1,349,148	792,496
	1927	3	48	89	481	50	431	153,606	142,425	576,944	560,816	16,128	1,148,612	571,668
Ohio.....	1929	14	80	195	2,339	500	1,839	277,359	294,719	2,219,897	2,168,691	51,206	3,551,355	1,331,458
	1927	23	141	373	4,200	990	3,309	426,230	470,622	2,219,527	2,146,955	72,572	3,927,980	1,708,453
	1919	28	133	213	2,008	597	1,411	281,732	234,169	1,962,514	1,917,293	45,221	3,259,085	1,246,571
Pennsylvania.....	1929	12	41	116	1,444	585	859	111,655	176,409	648,685	622,899	25,786	1,282,755	634,070
	1927	18	92	244	3,135	1,750	1,385	181,529	260,413	2,075,097	2,017,751	57,346	3,193,532	1,118,435
	1919	15	69	237	1,922	1,406	456	147,103	257,794	732,448	660,191	72,257	1,602,422	569,974
Groups of States:														
Conn., 2 est.; Mass., 1.....	1929	3	11	12	100	-----	100	35,549	17,518	66,325	63,954	2,371	140,756	74,431
N. J., 1 est.; N. Y., 5.....	1929	6	40	159	581	225	356	153,904	186,550	258,496	249,026	9,470	741,095	482,599
Other States (Ala., 2 est.; Ind., 1; Mo., 1; Nebr., 1; Va., 1; Wis., 1).....	1929	7	32	95	2,299	1,390	909	83,380	116,620	396,375	375,114	21,261	864,761	468,386
States not shown separately.....	1927	12	57	116	2,267	1,390	877	141,520	146,455	483,074	425,296	57,778	1,157,264	674,190
	1919	24	113	308	1,765	907	538	214,063	358,894	1,587,095	1,545,059	42,036	2,851,346	1,264,251

¹ Not including proprietors and firm members, as follows: For 1929, 10; 1927, 12; 1919, 23. The total numbers of persons engaged—proprietors and firm members, salaried officers and employees, and wage earners—as reported for the industry, are as follows: For 1929, 1,151; 1927, 1,365; 1919, 1,331.
² The figures for 1929 refer to sales (shipments or deliveries) by manufacturers; those for earlier years represent production. See GENERAL EXPLANATIONS—Value of Products.
³ Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.
⁴ See footnote 2, Table 1.
⁵ Data for purchased power other than electric (power transmitted into the plant by belt or shaft) are included in the State items for 1919 but not in the United States totals.
⁶ Alabama, 2 establishments; Connecticut, 2; Indiana, 1; Massachusetts, 1; New York, 5; Virginia, 1.
⁷ Alabama, 2 establishments; California, 1; Connecticut, 2; Indiana, 2; Maryland, 1; Michigan, 2; New Jersey, 2; New York, 11; Wisconsin, 1.

TABLE 3.—PRIME MOVERS, MOTORS, GENERATORS, AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY—NUMBER AND RATED CAPACITY OF PRIME MOVERS AND ELECTRIC MOTORS, 1929, 1927, 1925, 1919, AND 1914, AND OF GENERATORS, 1929, 1927, AND 1925; QUANTITY OF ELECTRIC ENERGY PURCHASED, 1929

TYPE	1929		1927		1925		1919		1914		PER CENT DISTRIBUTION OF RATED HORSEPOWER CAPACITY	
	Num- ber	Capacity	Num- ber	Capacity	Num- ber	Capacity	Num- ber	Capacity	Num- ber	Capacity	1929	1919
		Horse- power		Horse- power		Horse- power		Horse- power		Horse- power		
Prime movers and electric motors driven by purchased energy, aggregate.....	433	9,396	452	11,133	374	10,733	238	6,327	126	4,689	100.0	100.0
Prime movers, total.....	23	2,700	51	4,186	49	4,304	37	3,420	38	3,272	28.7	54.1
Steam engines.....	18	2,405	39	3,585	40	3,900	21	2,640	21	2,340	25.6	41.7
Internal-combustion engines.....	2	120	11	501	8	304	11	465	13	725	1.3	7.4
Water wheels and water turbines.....	3	175	1	100	1	100	5	315	4	207	1.9	5.0
Electric motors driven by purchased energy.....	410	6,696	401	6,947	325	6,429	201	2,907	88	1,417	71.3	45.9
Electric motors, total.....	427	6,841	419	7,136	343	6,524	232	3,495	116	1,820	100.0	100.0
Driven by purchased energy.....	410	6,696	401	6,947	325	6,429	201	2,907	88	1,417	97.9	83.2
Driven by energy generated in establishments report- ing.....	17	145	18	189	18	95	31	588	28	403	2.1	16.8
Electric generators.....	2	Kilowatts 125	2	Kilo- watts 100	2	Kilo- watts 110	(1)	(1)	(1)	(1)		
Electric energy purchased ¹		Kilowatt- hours 6,504,126		(2)		(2)		(1)		(1)		

¹ Not called for on schedule.
² This item covers the consumption of purchased electric energy for all purposes—power, heat, light, etc.
³ Data incomplete.

CENSUS OF MANUFACTURES: 1929

TABLE 4.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1929, 1925, 1919, 1914, AND 1909, AND BY STATES, 1929

[This table presents statistics for only those States for which figures can be given without disclosing data for individual establishments. The sum of the State items in any column is not, therefore, equal to the United States total at the head of the column. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures]

STATE	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum	
		January	February	March	April	May	June	July	August	September	October	November	December		
United States:															
1929.....	853	847	850	883	889	879	867	851	828	840	838	838	838	821	92.4
1925.....	1,087	<i>950</i>	1,024	1,018	1,065	1,107	1,097	1,094	1,120	1,119	1,119	1,169	1,153	82.0	
1919.....	906	922	879	855	<i>870</i>	853	880	874	898	932	958	988	983	86.0	
1914.....	555	496	483	519	552	574	603	598	603	573	584	603	482	79.9	
1909.....	464	<i>406</i>	447	447	448	443	431	464	446	480	502	501	549	74.0	
Illinois.....	164	154	164	171	178	178	175	159	<i>147</i>	167	162	161	155	82.6	
Michigan.....	112	<i>111</i>	<i>111</i>	112	113	112	112	112	112	113	113	113	<i>111</i>	98.2	
Ohio.....	195	196	185	201	199	207	199	200	188	<i>185</i>	192	190	192	89.4	
Pennsylvania.....	116	119	120	120	124	119	120	120	116	112	115	107	<i>101</i>	81.5	

FUR GOODS

Description of the industry.—The establishments classified in this industry are those whose principal products are women's, misses', and children's fur sets and furs, including boas, capes, collars, muffs, scarfs, shawls, and stoles; fur coats and cloaks; fur and fur-lined overcoats; fur hats, caps, gloves, and mittens; fur robes.

TABLE 1.—FUR GOODS—SUMMARY FOR THE UNITED STATES: 1899 TO 1929

[Data for establishments with products under \$5,000 in value included for 1919 and prior years but not for 1921 and subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²	Horsepower
1929	2,855	15,752	\$33,329,965	\$176,106,910	\$277,592,752	\$101,485,842	5,511
1927	2,756	16,640	37,670,610	195,322,988	299,615,047	104,222,059	5,635
1925	2,000	16,556	35,164,292	159,315,693	254,265,708	94,850,015	4,985
1923	1,758	14,439	27,923,042	126,162,143	198,042,871	71,850,428	4,269
1921	1,707	12,052	22,421,193	84,536,855	139,365,929	54,820,074	(3)
1919	1,815	13,639	24,149,212	105,596,605	173,137,739	67,541,134	5,327
1914	1,322	9,030	6,334,661	23,847,402	45,632,693	19,785,291	3,225
1909	1,241	11,927	7,787,845	31,776,905	55,937,549	24,160,644	2,111
1904	867	9,370	5,122,782	21,201,541	37,118,629	15,917,088	1,848
1899	734	7,768	3,927,214	14,281,092	25,899,192	11,018,100	907
PER CENT OF INCREASE OR DECREASE (—)							
1927-1929	3.0	-5.3	-11.5	-0.8	-7.4	-2.7	-2.5
1925-1927	37.8	0.5	7.1	22.6	17.8	9.8	13.4
1923-1925	13.8	14.7	25.0	26.3	28.4	32.1	16.0
1921-1923	3.0	19.8	24.5	49.2	42.1	31.1	
1919-1921	-6.0	-11.6	-7.2	-19.9	-19.5	-18.8	
1919-1929	57.3	15.5	38.0	66.8	60.3	50.3	3.5
1909-1919	46.3	14.4	210.1	232.3	209.5	179.6	152.3
1899-1909	69.1	53.7	98.3	122.5	116.0	108.0	132.7

¹ The figures for 1929 refer to sales (shipments or deliveries) by manufacturers; those for earlier years represent production. See GENERAL EXPLANATIONS—Value of Products.

² Value of products less cost of materials, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

³ Not called for on schedule.

TABLE 2.—FUR GOODS—GENERAL STATISTICS, BY STATES: 1929, 1927, AND 1919

[This table presents statistics separately for each State for which figures can be given without disclosing data for individual establishments, and for the remaining States in groups. Data for establishments with products under \$5,000 in value are included for 1919 but not for subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

STATE	Census year	Number of establishments	Salaried officers and employees ¹	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products ²	Value added by manufacture ³
					Total	Prime movers	Motors run by purchased energy			Total	Materials	Fuel and purchased energy		
United States	1929	2,855	4,101	15,752	5,511	12	5,499	\$12,757,711	\$33,329,965	\$176,106,910	\$175,471,497	\$635,413	\$277,592,752	\$101,485,842
	1927	2,756	4,083	16,640	5,655	—	5,655	10,992,886	37,670,610	195,322,988	194,678,425	64,563	299,615,047	104,222,059
	1919	1,815	3,668	13,639	5,327	887	4,340	7,983,146	24,149,212	105,596,605	105,322,780	273,825	173,137,739	67,541,134
Individual States: California	1929	86	71	383	151	—	151	199,596	657,396	2,134,384	2,124,750	9,634	3,831,513	1,697,129
	1927	61	89	375	86	—	86	198,891	679,807	2,242,687	2,234,231	8,456	4,964,648	1,821,061
	1919	33	39	325	69	—	69	81,845	412,036	1,372,390	1,368,657	3,833	2,615,243	1,142,853
Connecticut	1929	8	13	66	26	—	26	39,831	87,096	283,874	291,116	2,758	509,791	215,917
	1927	(1)	(1)	(1)	(1)	—	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
	1919	11	4	44	0	—	0	5,142	54,803	162,217	161,084	1,133	284,284	122,067
District of Columbia	1929	9	23	85	28	—	28	86,249	157,471	519,005	514,794	4,811	976,055	456,450
	1927	10	38	84	24	—	24	70,021	189,906	383,798	377,573	6,225	839,067	455,269
	1919	6	12	33	30	—	30	16,146	62,733	163,067	161,400	1,667	214,553	111,791
Illinois	1929	234	206	954	406	—	406	988,322	2,065,594	7,843,627	7,780,438	54,489	14,070,620	6,226,693
	1927	228	300	969	293	—	293	832,518	2,206,202	8,806,736	8,765,070	41,066	14,586,093	5,776,357
	1919	123	188	670	158	—	158	393,723	1,098,805	4,612,055	4,596,988	15,067	8,112,908	3,500,863
Indiana	1929	10	31	70	19	—	19	85,888	88,685	251,114	247,516	3,598	643,144	292,030
	1927	8	7	63	24	—	24	18,743	74,096	227,276	224,000	3,276	408,542	181,266
	1919	7	3	29	8	—	8	11,145	27,864	75,098	74,073	1,025	189,447	114,349

See footnotes at end of table.

CENSUS OF MANUFACTURES: 1929

TABLE 2.—FUR GOODS—GENERAL STATISTICS, BY STATES: 1929, 1927, AND 1919—Continued

[See note at head of this table]

STATE	Cen- sus year	Number of estab- lish- ments	Sala- ried offi- cers and em- ploy- ees ¹	Wage earn- ers (aver- age for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, FUEL, AND PUR- CHASED ELECTRIC ENERGY			Value of products ²	Value added by manu- facture ³
					Total	Prime mov- ers	Mot- ors run by pur- chased energy			Total	Materials	Fuel and pur- chased energy		
Individual States—Contd.														
Iowa	1929	24	72	222	211		211	\$121,643	\$232,638	\$531,263	\$516,391	\$14,872	\$1,460,357	\$935,094
	1927	20	33	157	108		108	61,176	170,782	475,840	469,424	6,410	1,051,355	575,515
	1919	20	112	268	158	10	148	166,324	269,730	804,524	793,083	11,441	1,845,964	1,041,440
Maine	1929	6	18	30	23		23	42,865	37,037	60,650	58,042	2,608	187,422	126,772
Maryland	1929	23	19	105	29		29	52,272	121,017	499,242	495,494	3,758	830,829	331,587
	1927	21	30	78	22		22	30,344	124,172	368,060	360,135	3,834	682,406	318,437
	1919	21	21	81	18		18	17,705	149,270	410,207	406,708	3,409	738,314	328,107
Massachusetts	1929	20	61	228	83		83	202,739	454,779	1,118,007	1,110,553	7,514	2,271,512	1,153,445
	1927	36	103	491	145		145	254,529	777,845	2,236,927	2,227,439	9,488	3,856,566	1,619,639
	1919	22	65	289	61		61	127,677	393,661	1,310,084	1,305,490	4,594	2,417,752	1,107,668
Michigan	1929	41	65	403	185		185	217,385	600,189	1,767,518	1,744,180	23,338	3,869,029	2,101,511
	1927	23	83	379	243		243	170,957	592,353	1,669,375	1,657,530	11,839	3,311,565	1,642,100
	1919	31	126	426	117		117	261,373	411,618	1,281,642	1,272,608	9,034	2,443,527	1,161,885
Minnesota	1929	51	140	578	163		163	377,559	1,015,018	2,793,483	2,766,431	27,052	5,320,532	2,527,049
	1927	43	200	712	322		322	465,888	1,119,541	3,330,923	3,298,251	32,672	6,042,237	2,711,314
	1919	45	419	905	515	3	512	700,637	1,086,583	5,204,273	5,181,310	22,963	8,062,800	2,858,587
Missouri	1929	17	57	225	94		94	177,601	270,832	1,000,119	991,634	8,485	1,748,344	748,225
	1927	19	75	231	23		23	232,571	200,720	1,123,322	1,114,879	8,443	3,311,180	1,091,858
	1919	12	48	166	57		57	124,758	189,224	564,310	560,393	3,917	1,252,858	688,543
Montana	1929	3	2	14	50		50	1,345	15,435	55,366	54,146	1,220	99,793	44,427
	1927	(⁴)	(⁴)	(⁴)	(⁴)		(⁴)	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)
	1919	6	6	20	5		5	5,971	20,906	30,602	29,932	570	78,503	48,061
Nebraska	1929	4	19	49	17		17	54,491	62,234	155,202	153,201	2,001	299,436	144,234
	1927	3	8	46	10		10	17,453	63,843	173,007	172,106	901	368,702	195,095
	1919	7	32	93	84		84	48,939	80,928	380,132	386,315	2,817	712,846	323,714
New Jersey	1929	15	26	104	84	12	72	61,170	204,304	470,237	463,295	6,942	879,984	409,747
	1927	16	42	246	36		36	105,583	406,873	1,229,143	1,222,221	6,922	2,101,222	872,079
	1919	27	21	109	45	10	35	34,356	142,767	328,201	323,638	4,593	653,209	325,008
New York	1929	2,046	2,836	10,928	3,353		3,353	9,197,352	25,188,452	140,935,915	149,550,392	385,523	228,489,135	78,553,220
	1927	2,029	2,687	11,215	3,634		3,634	6,896,342	28,485,400	164,266,385	163,837,952	428,433	244,941,302	80,074,917
	1919	1,218	2,242	8,890	3,375	950	2,425	5,447,889	18,219,485	83,818,584	83,667,932	150,652	134,219,190	50,400,606
Ohio	1929	34	57	198	57		57	87,935	353,096	1,208,063	1,199,131	8,932	2,102,718	894,655
	1927	37	46	221	143		143	105,615	396,945	1,040,568	1,034,355	6,212	2,013,915	873,347
	1919	36	42	207	236		236	77,291	252,936	578,803	575,718	3,085	1,201,147	622,344
Oregon	1929	12	15	35	13		13	38,393	48,990	130,728	128,271	2,457	310,726	179,998
	1927	6	7	35	9		9	16,548	44,480	90,229	91,250	1,021	221,239	129,989
	1919	6	16	59	34		34	24,895	63,916	106,869	105,174	1,695	270,445	163,576
Pennsylvania	1929	126	142	440	220		220	341,969	822,347	3,228,810	3,194,566	34,244	5,479,598	2,250,778
	1927	100	162	468	99		99	264,295	953,724	3,789,484	3,760,695	28,789	6,312,890	2,523,466
	1919	95	165	414	112	4	108	197,292	595,134	2,531,522	2,518,021	13,501	4,302,844	1,771,322
Washington	1929	21	34	198	79		79	95,932	252,717	467,856	462,338	5,518	1,158,511	690,655
	1927	24	50	161	55		55	104,059	232,300	606,759	599,951	6,808	1,279,090	672,331
	1919	22	17	124	31		31	24,866	167,573	282,225	280,470	1,755	680,681	398,560
Wisconsin	1929	41	91	313	172		172	232,536	383,372	1,288,579	1,267,579	21,051	2,388,415	1,099,836
	1927	37	92	427	275		275	168,037	506,196	2,083,639	2,083,519	13,120	3,515,887	1,406,248
	1919	34	66	280	137		137	183,969	274,514	1,149,318	1,137,701	11,617	1,991,587	842,209
Groups of States:														
Colo., 2; est.; La., 1; Okla., 1; Tex., 2; Utah, 1	1929	7	6	74	20		20	14,400	78,016	149,428	147,428	2,000	341,843	192,415
Kans., 1 est.; N. Dak., 3	1929	4	8	23	17		17	26,900	33,811	99,270	97,792	1,478	198,184	98,914
Del., 1 est.; Ky., 1; W. I., 1; Tenn., 1	1929	4	5	27	11		11	13,338	38,539	104,210	103,080	1,130	219,261	115,051
States not shown sepa- rately	1927	29	41	282	104		104	79,816	355,265	1,158,900	1,148,858	10,042	1,975,141	816,241
	1919	33	24	207	68	10	83	51,183	187,726	481,582	470,095	5,487	949,212	467,680

¹ Not including proprietors and firm members, as follows: For 1929, 3,161; 1927, 3,755; 1919, 2,527. The total numbers of persons engaged—proprietors and firm members salaried officers and employees, and wage earners—as reported for the industry, are as follows: For 1929, 23,014; 1927, 24,488; 1919, 19,834.

² The figures for 1929 refer to sales (shipments or deliveries) by manufacturers; those for earlier years represent production. See GENERAL EXPLANATIONS—Value of Products.

³ Value of products less cost of materials, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

⁴ Withheld from publication in order to avoid disclosing data for individual establishments.

⁵ Colorado, 3 establishments; Connecticut, 5; Delaware, 1; Kansas, 1; Kentucky, 1; Louisiana, 1; Maine, 7; Montana, 3; North Dakota, 1; Oklahoma, 1; Rhode Island, 2; Utah, 1; Vermont, 1; West Virginia, 1.

⁶ Colorado, 9 establishments; Idaho, 1; Kentucky, 2; Maine, 5; North Dakota, 3; Rhode Island, 2; South Dakota, 3; Utah, 3; Vermont, 2; Virginia, 3.

FUR GOODS

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TABLE 3.—FUR GOODS—PRODUCTS, BY CLASS AND VALUE, BY STATES: 1929

[The figures refer to sales (shipments or deliveries) by manufacturers. See GENERAL EXPLANATIONS—Value of Products. Figures are given for each State which can be shown separately without disclosing data for individual establishments. Certain of the "Other States," however, reported larger values of the specified classes of products than some of the States shown separately]

CLASS AND STATE	Value	CLASS AND STATE	Value
1. Fur-goods industry, all products, total value.....	\$277,592,752	Fur goods, all industries—Continued.	
2. Fur goods.....	272,957,417	Fur neck pieces, total.....	\$21,770,241
3. Other products (not normally belonging to the industry).....	1,424,415	California.....	648,214
4. Receipts for contract work.....	3,210,920	Connecticut.....	12,788
5. Fur goods made as secondary products in other industries, value.....	173,342	District of Columbia.....	102,906
		Illinois.....	833,726
		Indiana.....	85,074
		Iowa.....	103,374
		Maine.....	32,005
		Maryland.....	42,971
		Massachusetts.....	125,533
		Michigan.....	283,271
		Minnesota.....	250,648
		Missouri.....	177,153
		Montana.....	9,406
		New Jersey.....	29,296
		New York.....	17,644,457
		Ohio.....	132,416
		Oregon.....	87,727
		Pennsylvania.....	561,171
		Washington.....	166,883
		Wisconsin.....	148,641
		Other States (Calif., Del., Kans., Ky., La., Nebr., R. I., Tenn., Tex., Utah).....	101,553
Fur goods, all industries, aggregate value (sum of 2 and 5).....	273,130,769	Fur robes, total.....	635,238
Fur and fur-lined coats and overcoats, total.....	133,839,470	New York.....	222,883
Michigan.....	2,472,244	Other States (Calif., Colo., Ill., Ind., Iowa, Mich., Minn., Mont., Nebr., Ohio, Pa., Tex., Wash., Wis.).....	408,355
New York.....	108,232,736		
Wisconsin.....	1,214,593		
Other States (Calif., Colo., Conn., Del., D. C., Ill., Ind., Iowa, Kans., Ky., La., Me., Md., Mass., Minn., Mo., Mont., Nebr., N. J., N. Dak., Ohio, Oreg., Pa., R. I., Tenn., Tex., Utah, Wash.).....	21,919,907		
Men's, total.....	4,220,498	Fur trimmings, total.....	93,467,356
Michigan.....	111,697	California.....	756,095
New York.....	3,325,180	Illinois.....	1,447,754
Wisconsin.....	29,408	Massachusetts.....	446,751
Other States (Calif., Colo., Conn., Del., D. C., Ill., Ind., Iowa, Me., Md., Mass., Minn., Mo., N. Dak., Ohio, Pa., Tex., Wash.).....	754,213	Michigan.....	35,769
Women's, total.....	129,618,972	Minnesota.....	9,843
California.....	1,646,747	New Jersey.....	72,050
District of Columbia.....	551,381	New York.....	89,116,987
Illinois.....	7,024,601	Ohio.....	460,944
Indiana.....	230,850	Pennsylvania.....	645,622
Iowa.....	783,837	Washington.....	7,620
Maine.....	57,554	Wisconsin.....	9,312
Maryland.....	184,479	Other States (D. C., Ind., Iowa, Ky., Me., Md., Mo., Mont., Nebr., Oreg., R. I., Tenn., Tex.).....	458,769
Massachusetts.....	902,975	Other fur and fur-lined goods.....	4,168,412
Michigan.....	2,360,547	Amount received for custom work and repairing.....	19,241,042
Minnesota.....	3,405,391		
Missouri.....	1,081,056		
Nebraska.....	154,783		
New Jersey.....	283,310		
New York.....	104,907,546		
Ohio.....	497,897		
Oregon.....	27,234		
Pennsylvania.....	3,065,561		
Washington.....	575,794		
Wisconsin.....	1,185,185		
Other States (Colo., Conn., Del., Kans., Ky., La., Mont., N. Dak., R. I., Tenn., Tex., Utah).....	672,634		

TABLE 4.—FUR GOODS—PRIME MOVERS, MOTORS, AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY—NUMBER AND RATED CAPACITY OF PRIME MOVERS AND ELECTRIC MOTORS, 1929, 1927, 1925, 1919, AND 1914; QUANTITY OF ELECTRIC ENERGY PURCHASED, 1929

TYPE	1929		1927		1925		1919		1914		PER CENT DISTRIBUTION OF RATED HORSEPOWER CAPACITY	
	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	1929	1919
		Horse-power		Horse-power		Horse-power		Horse-power		Horse-power		
Prime movers and electric motors driven by purchased energy, aggregate.....	12,030	5,511	10,156	5,655	8,095	4,985	5,794	5,327	2,977	3,225	100.0	100.0
Prime movers, total.....	2	12	1	25	1	25	9	987	10	765	0.2	18.5
Steam engines.....					1	25	6	970	11	644		18.2
Internal-combustion engines.....	2	12					2	14	7	116	0.2	0.3
Water wheels and water turbines.....							1	3	1	5		0.1
Electric motors driven by purchased energy.....	12,028	5,499	10,156	5,655	8,094	4,960	5,785	4,340	2,968	2,460	99.8	81.5
Electric motors, total.....	12,028	5,499	10,156	5,655	8,094	4,960	5,785	4,340	2,962	2,619	100.0	100.0
Driven by purchased energy.....	12,028	5,499	10,156	5,655	8,094	4,960	5,785	4,340	2,958	2,460	100.0	100.0
Driven by energy generated in establishments reporting.....									34	159		
Electric energy purchased ¹		Kilowatt-hours 10,372,714		(?)		(?)		(?)		(?)		

¹ This item covers the consumption of purchased electric energy for all purposes—power, heat, light, etc.

² Data incomplete.

³ Not called for on schedule.

CENSUS OF MANUFACTURES: 1929

TABLE 5.—FUR GOODS—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1929, 1925, 1919, 1914, AND 1909, AND BY STATES, 1929

[This table presents statistics for only those States for which figures can be given without disclosing data for individual establishments. The sum of the State items in any column is not, therefore, equal to the United States total at the head of the column. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures.]

STATE	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum of maximum			
		January	February	March	April	May	June	July	August	September	October	November	December				
United States:																	
1929.....	15,752	<i>12,051</i>	12,315	12,853	13,558	14,660	16,124	17,614	18,616	19,427	19,440	17,581	14,785	62.0			
1925.....	16,556	<i>13,054</i>	12,971	14,022	14,676	15,503	16,308	17,245	18,419	19,374	19,983	19,785	17,347	65.0			
1919.....	13,639	<i>10,847</i>	11,358	12,419	12,176	12,475	13,500	14,031	14,699	15,366	15,774	15,820	15,203	69.2			
1914.....	9,030	<i>7,487</i>	7,069	7,205	7,217	7,332	8,020	8,634	9,348	10,829	11,071	11,957	11,591	69.1			
1909.....	11,927	<i>9,747</i>	9,454	9,588	9,866	10,415	10,975	11,673	12,797	14,165	14,987	15,202	14,220	62.2			
California.....	883	<i>857</i>	854	832	<i>822</i>	832	831	883	431	455	460	444	395	70.0			
Connecticut.....	66	<i>37</i>	35	41	40	71	87	114	118	78	62	61	49	20.7			
District of Columbia.....	85	<i>89</i>	81	71	76	75	82	74	77	88	103	111	98	64.0			
Illinois.....	954	<i>709</i>	658	683	730	845	938	1,032	1,140	1,216	1,268	1,220	1,016	52.3			
Indiana.....	70	<i>69</i>	64	<i>69</i>	61	64	62	67	74	82	86	84	76	68.6			
Iowa.....	222	<i>207</i>	196	196	197	204	202	223	240	253	240	257	239	76.3			
Maine.....	30	<i>29</i>	28	28	24	27	30	30	33	35	35	34	34	65.7			
Maryland.....	105	<i>92</i>	80	70	87	103	116	122	110	125	132	116	108	59.0			
Massachusetts.....	228	<i>199</i>	180	188	174	218	221	232	244	267	286	284	240	60.8			
Michigan.....	403	<i>356</i>	348	321	301	315	321	402	465	498	515	525	476	57.3			
Minnesota.....	578	<i>394</i>	332	415	506	550	597	632	682	724	790	714	609	52.3			
Missouri.....	225	<i>187</i>	174	163	196	211	231	242	268	277	294	248	231	60.6			
Montana.....	14	<i>14</i>	12	11	10	10	12	14	14	17	19	20	19	50.0			
Nebraska.....	49	<i>37</i>	37	38	39	47	58	57	56	56	56	56	45	63.8			
New Jersey.....	104	<i>85</i>	76	75	85	94	108	110	114	123	135	132	110	55.6			
New York.....	10,928	<i>8,078</i>	8,559	9,112	9,614	10,331	11,439	12,409	13,081	13,613	13,460	11,713	9,635	59.3			
Ohio.....	198	<i>157</i>	152	163	162	174	198	218	228	234	248	240	199	61.3			
Oregon.....	35	<i>33</i>	27	29	30	31	36	38	40	43	42	39	36	62.8			
Pennsylvania.....	440	<i>418</i>	389	382	392	401	430	440	457	479	508	510	473	74.9			
Washington.....	198	<i>146</i>	145	153	164	178	191	216	246	243	280	233	199	55.0			
Wisconsin.....	313	<i>255</i>	254	<i>239</i>	261	277	310	334	358	377	387	381	338	61.8			

FURS, DRESSED

Description of the industry.—The establishments classified in this industry are engaged primarily in scraping, currying, tanning, bleaching, and dyeing pelts and in dressing hair and bristles. In most cases the work is done for others on a contract basis.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1929

[Data for establishments with products under \$5,000 in value included for 1919 and prior years but not for 1921 and subsequent years. See GENERAL EXPLANATIONS—Establishments covered—Size]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²	Horsepower
1929	248	5,167	\$8,596,377	\$18,648,954	\$40,237,192	\$21,588,238	10,769
1927	172	5,540	10,360,987	7,071,850	27,680,635	20,608,785	12,407
1925	133	5,056	8,205,892	7,296,408	25,422,663	18,125,255	9,838
1923	102	5,203	8,381,453	7,241,783	25,466,841	18,225,058	7,776
1921	120	4,429	6,768,712	6,070,474	19,157,339	13,086,865	(³)
1919	141	5,075	7,098,286	6,338,835	20,384,569	14,045,734	5,421
1914	96	1,525	922,966	906,036	2,875,036	1,969,000	2,207
1909	93	1,241	806,468	810,800	2,390,959	1,850,159	1,762
1904	85	1,105	754,988	1,641,950	3,215,701	1,573,751	1,234
1899	92	885	478,190	519,699	1,400,455	880,756	1,037
PER CENT OF INCREASE OR DECREASE (-)							
1927-1929	44.2	-0.7	-17.0	163.7	45.4	4.8	-13.6
1925-1927	29.3	9.6	26.3	-3.1	8.9	13.7	26.6
1923-1925	-17.9	-2.8	-2.1	0.6	-9.2	-0.5	26.8
1921-1923	28.6	17.5	24.0	19.3	32.9	39.8	
1919-1921	-10.0	-12.7	-4.8	-4.2	-6.0	-6.8	
1919-1929	75.9	1.8	21.1	194.2	97.4	53.7	98.7
1909-1919	(⁴)	308.9	780.2	681.8	752.6	788.9	207.7
1899-1909	(⁴)	48.6	68.7	56.0	70.7	79.4	69.9

¹ Principally receipts for contract work.

² Value of products less cost of materials, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

³ Not called for on schedule.

⁴ Per cent not computed where base is less than 100.

TABLE 2.—GENERAL STATISTICS, BY STATES: 1929, 1927, AND 1919

[This table presents statistics separately for each State for which figures can be given without disclosing data for individual establishments, and for the remaining States in groups. Data for establishments with products under \$5,000 in value are included for 1919 but not for subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

STATE	Census year	Number of establishments	Salaried officers and employees ¹	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products ²	Value added by manufacture ³
					Total	Prime movers	Motors run by purchased energy			Total	Materials and containers	Fuel and purchased energy		
United States	1929	248	780	5,167	10,769	2,440	8,329	\$3,081,603	\$8,596,377	\$18,648,954	\$18,213,467	\$435,487	\$40,237,192	\$21,588,238
	1927	172	818	5,540	12,467	3,011	9,456	2,808,429	10,360,987	7,071,850	6,570,825	501,025	27,680,635	20,608,785
	1919	141	477	5,075	4,521	1,944	3,477	1,504,541	7,098,286	6,338,835	6,046,143	292,692	20,384,569	14,045,734
Individual States:														
California	1929	3		12	41		41		19,855	20,226	19,564	662	70,516	50,290
	1929	22	185	1,317	2,585	500	2,085	669,327	2,181,051	853,667	736,856	110,811	5,832,763	4,979,036
New Jersey	1927	25	180	1,434	4,057	640	3,417	728,117	2,619,982	1,185,310	1,050,913	134,397	6,806,918	5,621,608
	1919	18	80	1,551	1,297	205	1,092	335,697	2,134,248	1,156,270	1,049,422	106,848	5,113,135	3,956,865
New York	1929	191	483	3,057	5,403	80	5,323	2,115,676	5,301,144	14,195,068	13,978,334	218,734	28,493,137	14,298,069
	1927	115	531	3,443	6,020	498	5,522	1,785,967	6,899,502	3,218,672	2,949,444	269,228	15,928,715	12,710,043
	1919	83	283	2,521	2,716	500	2,216	978,555	4,032,160	3,899,148	3,767,250	131,898	11,888,062	7,988,914
Groups of States:														
Ill., 5 est.; Ind., 1; Mich., 4; Wis., 2	1929	12	50	419	1,136	700	436	111,427	612,475	2,042,329	1,995,084	47,245	3,298,044	1,255,715
Del., 1 est.; Ky., 1; Ohio, 2	1929	4	4	81	512	500	12	8,794	35,997	320,192	330,020	9,172	372,930	43,738
Conn., 1 est.; Mass., 2; Pa., 3	1929	6	17	98	293	250	43	52,488	129,337	1,055,107	1,031,224	23,883	1,241,595	186,488
Other States (Colo., 2 est.; Iowa, 1; La., 1; Minn., 4; Mo., 1; Wash., 1)	1929	10	41	283	799	410	389	123,891	316,518	153,365	134,385	18,980	928,267	774,902
States not shown separately	1927	32	107	663	2,390	1,873	517	294,345	871,503	2,667,868	2,570,468	97,400	4,945,002	2,277,134
	1919	40	114	1,003	1,608	1,239	369	102,289	931,938	1,283,417	1,229,471	53,946	3,383,372	2,099,955

¹ Not including proprietors and firm members, as follows: For 1929, 174; 1927, 100; 1919, 127. The total numbers of persons engaged—proprietors and firm members, salaried officers and employees, and wage earners—as reported for the industry, are as follows: For 1929, 6,121; 1927, 6,458; 1919, 5,679.

² Principally receipts for contract work.

³ Value of products less cost of materials, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

⁴ Data for purchased power other than electric (power transmitted into the plant by belt or shaft) are included in the State items for 1919 but not in the United States totals.

⁵ California, 2 establishments; Colorado, 2; Delaware, 1; Illinois, 6; Indiana, 1; Iowa, 2; Kentucky, 1; Massachusetts, 2; Michigan, 1; Minnesota, 3; Missouri, 2; Ohio, 3; Pennsylvania, 3; Washington, 1; Wisconsin, 2.

⁶ California, 1 establishment; Connecticut, 1; Illinois, 4; Indiana, 2; Kansas, 1; Maine, 1; Maryland, 2; Massachusetts, 2; Michigan, 4; Minnesota, 5; Missouri, 1; Montana, 3; Nebraska, 1; Ohio, 2; Oregon, 1; Pennsylvania, 1; Texas, 1; Washington, 3; Wisconsin, 4.

CENSUS OF MANUFACTURES: 1929

TABLE 3.—PRIME MOVERS, MOTORS, GENERATORS, AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY—NUMBER AND RATED CAPACITY OF PRIME MOVERS AND ELECTRIC MOTORS, 1929, 1927, 1925, 1919, AND 1914, AND OF GENERATORS, 1929, 1927, AND 1925; QUANTITY OF ELECTRIC ENERGY PURCHASED, 1929

TYPE	1929		1927		1925		1919		1914		PER CENT DISTRIBUTION OF RATED HORSEPOWER CAPACITY	
	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	1929	1919
Prime movers and electric motors driven by purchased energy, aggregate	1,252	Horse-power 10,763	1,242	Horse-power 12,467	800	Horse-power 9,858	574	Horse-power 5,421	192	Horse-power 2,207	100.0	100.0
Prime movers, total	16	2,440	20	3,011	21	3,122	30	1,944	30	1,337	22.7	35.9
Steam, total	16	2,440	20	3,011	19	3,113	25	1,892	22	1,277	22.7	34.9
Engines	16	2,440	20	3,011	19	3,113	22	1,832	(1)	(1)	22.7	33.8
Turbines							3	60	(1)	(1)		1.1
Internal-combustion engines					2	9	5	52	7	55		1.0
Water wheels and water turbines								1	1	5		
Electric motors driven by purchased energy	1,236	8,329	1,222	9,456	869	6,736	544	3,477	162	870	77.3	64.1
Electric motors, total	1,392	9,690	1,363	11,219	1,044	9,190	594	3,809	163	895	100.0	100.0
Driven by purchased energy	1,236	8,329	1,222	9,456	869	6,736	544	3,477	162	870	83.4	91.3
Driven by energy generated in establishments reporting	156	1,661	141	1,763	175	2,460	50	332	1	25	16.6	8.7
Electric generators	8	Kilo-watts 1,170 Kilo-watt-hours	7	Kilo-watts 640	7	Kilo-watts 710	(?)	(?)	(?)	(?)		
Electric energy purchased *		6,319,892		(1)		(1)		(2)		(2)		

1 Not called for separately on schedule.
 2 Not called for on schedule.
 3 This item covers the consumption of purchased electric energy for all purposes—power, heat, light, etc.
 4 Data incomplete.

TABLE 4.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1929, 1925, 1919, 1914, AND 1909, AND BY STATES, 1929

[This table presents statistics for only those States for which figures can be given without disclosing data for individual establishments. The sum of the State items in any column is not, therefore, equal to the United States total at the head of the column. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures]

STATE	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum
		January	February	March	April	May	June	July	August	September	October	November	December	
United States:														
1929	5,167	4,546	5,196	5,554	5,518	5,327	5,305	5,303	5,658	5,623	5,410	4,557	4,000	70.7
1925	5,056	4,482	5,135	5,318	5,081	5,217	5,222	5,151	5,371	5,250	5,338	5,001	4,105	70.4
1919	5,075	4,012	4,429	4,867	4,564	5,124	5,416	5,662	5,670	5,594	5,350	5,283	4,929	70.8
1914	1,525	1,224	1,256	1,297	1,437	1,721	1,705	1,702	1,617	1,734	1,609	1,600	1,398	70.6
1909	1,241	1,163	1,380	1,396	1,408	1,404	1,322	1,232	1,175	1,148	1,114	1,103	1,058	75.1
California	12	12	12	12	12	12	12	12	12	12	12	12	12	
New Jersey	1,317	1,197	1,455	1,529	1,490	1,500	1,597	1,275	1,367	1,397	1,321	1,091	790	51.7
New York	3,037	2,581	2,950	3,232	3,243	3,052	3,115	3,226	3,471	3,415	3,277	2,674	2,442	70.4

HAIR WORK

Description of the industry.—The hair-work industry largely from human hair but to some extent from the hair of Angora goats or other animals embraces establishments whose principal products are wigs, switches, braids, puffs, and related articles made

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1929

[Data for establishments with products under \$5,000 in value included for 1919 and prior years but not for 1921 and subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers for products, fuel, and purchased electric energy	Value of products ^{1,2}	Value added by manufacture ³	Horsepower
1929	59	359	\$432,340	\$538,479	\$1,693,588	\$1,155,109	44
1927	69	515	598,034	829,891	2,279,226	1,449,335	21
1925	85	864	974,982	3,046,270	6,083,756	3,043,480	13
1923	113	1,317	1,352,406	5,508,007	11,263,953	5,695,946	17
1921	128	1,222	1,256,198	6,734,188	10,951,844	4,217,656	(⁴)
1919	108	1,084	1,064,030	3,829,197	6,963,033	3,133,836	119
1914	205	1,193	1,680,815	1,528,942	3,334,946	1,806,004	68
1909	260	3,534	1,609,788	6,080,610	11,216,175	5,135,565	218
1904	125	863	334,778	727,688	1,782,491	1,054,863	62
1899	158	820	287,288	496,172	1,406,216	910,044	23
PER CENT OF INCREASE OR DECREASE (—)							
1927-1929	(⁵)	-30.3	-27.7	-35.1	-25.7	-20.3	(⁶)
1925-1927	(⁶)	-40.4	-38.7	-72.8	-62.6	-52.4	(⁶)
1923-1925	-24.8	-34.4	-27.9	-45.3	-45.9	-46.6	(⁶)
1921-1923	-11.7	7.8	7.7	-17.3	2.8	35.1	(⁶)
1919-1921	-35.4	12.7	18.0	75.9	57.8	34.6	(⁶)
1919-1929	-70.2	-66.9	-50.4	-85.9	-75.7	-63.1	-63.0
1909-1919	-20.8	-69.8	-38.9	-37.0	-37.9	-39.0	-45.4
1899-1909	58.2	331.0	460.8	1,126.5	697.6	404.3	(⁶)

¹ For 1929, manufacturers' sales (shipments or deliveries); for earlier years, production. See GENERAL EXPLANATIONS—Value of Products.

² Includes values of miscellaneous products, normally belonging to other industries, made as secondary products by establishments classified in the hair-work industry, as follows: 1929, \$44,762; 1927, \$40,446; 1925, \$29,980; corresponding amounts for earlier years not available. Does not include following values of hair work reported by establishments engaged primarily in other lines of manufacture: 1929, \$175,829; 1927, \$13,500; 1925, \$268,006; 1923, \$41,822; 1921, \$86,760; 1919, \$91,762; corresponding amounts for earlier years not available.

³ Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

⁴ Not called for on schedule.

⁵ Per cent not computed where base is less than 100.

TABLE 2.—GENERAL STATISTICS, BY STATES: 1929, 1927, AND 1919

[This table presents statistics separately for each State for which figures can be given without disclosing data for individual establishments. Data for establishments with products under \$5,000 in value are included for 1919 but not for subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

STATE	Census year	Number of establishments	Salaried officers and employes ¹	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products ²	Value added by manufacture ³
					Total	Prime movers	Motors run by purchased energy			Total	Materials and containers	Fuel and purchased energy		
United States	1929	59	86	359	44	18	26	\$184,390	\$432,340	\$538,479	\$529,823	\$8,656	\$1,693,588	\$1,155,109
	1927	69	111	515	21	21	21	281,885	598,034	829,891	817,685	12,266	2,279,226	1,449,335
	1919	108	255	1,084	119	70	49	482,316	1,064,630	3,829,197	3,812,734	16,443	6,963,033	3,133,836
California	1929	5	11	21	17	17	1	29,962	37,239	35,693	34,847	846	140,914	105,221
	1927	4	11	24	17	17	1	29,962	33,880	29,530	27,993	1,537	100,960	71,430
	1919	9	1	26	17	17	1	2,110	25,017	38,800	38,760	50	96,487	57,687
Illinois	1929	6	6	18	1	1	1	16,543	17,663	32,943	32,674	269	92,716	59,773
	1927	7	10	61	6	6	6	40,834	73,022	150,600	150,110	490	311,565	160,965
	1919	19	53	161	57	50	7	74,148	101,565	302,468	297,140	5,328	610,963	308,495
Massachusetts	1929	3	9	22	1	1	1	18,336	19,236	19,046	19,046	—	77,941	58,895
	1927	3	4	34	1	1	1	9,370	33,196	32,738	32,611	127	98,063	65,325
	1919	3	2	6	1	1	1	1,644	4,240	9,269	9,226	43	24,335	15,066
New York	1929	32	58	225	20	1	19	120,874	284,574	419,835	413,366	6,469	1,180,223	760,388
	1927	36	73	296	13	13	13	177,946	359,714	555,072	548,434	6,638	1,490,372	935,300
	1919	94	168	629	24	24	24	369,016	711,062	2,829,066	2,821,471	7,595	5,100,420	2,271,354
Pennsylvania	1929	6	3	26	3	3	3	2,832	30,672	12,803	11,888	915	73,690	60,887
	1927	8	1	31	2	2	2	1,500	31,393	20,758	18,210	2,548	93,346	72,588
	1919	22	10	110	29	20	9	21,312	114,151	500,424	499,085	1,339	722,464	222,040
Other States	⁴ 1929	7	10	47	3	3	3	25,805	42,956	18,158	18,062	157	128,104	103,945
	⁵ 1927	11	12	69	3	3	3	22,243	67,829	41,193	40,327	866	184,929	143,727
	⁶ 1919	51	15	152	8	8	8	14,086	108,652	149,170	147,082	2,088	408,364	259,194

¹ Not including proprietors and firm members, as follows: For 1929, 29; 1927, 57; 1919, 210. The total numbers of persons engaged—proprietors and firm members, salaried officers and employees, and wage earners—are as follows: For 1929, 474; 1927, 683; 1919, 1,549.

² The figures for 1929 refer to sales (shipments or deliveries) by manufacturers; those for earlier years represent production. See GENERAL EXPLANATIONS—Value of Products.

³ Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

⁴ Nebraska, 1 establishment; Ohio, 2; Oregon, 1; Rhode Island, 1; Washington, 2.

⁵ Maine, 1 establishment; Missouri, 1; Nebraska, 1; New Jersey, 1; Ohio, 1; Oregon, 1; Rhode Island, 1; Washington, 2; Wisconsin, 2.

⁶ Colorado, 4 establishments; Connecticut, 1; Indiana, 1; Iowa, 1; Kentucky, 3; Maine, 4; Michigan, 1; Minnesota, 1; Missouri, 3; Nebraska, 1; New Jersey, 5; Ohio, 1; Oregon, 1; Rhode Island, 2; Tennessee, 2; Utah, 1; Virginia, 1; Washington, 3; Wisconsin, 5.

HAND STAMPS AND STENCILS AND BRANDS

Description of the industry.—The principal products of the establishments assigned to this industry are stamps; copper and brass stamps for marking textiles; rubber and metal stamps, dies, seals, and presses; steel numbering machines; stencils for use in painting or marking or in addressing machines; and branding irons. letters and figures; check protectors, date and time

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1929

[Data for establishments with products under \$5,000 in value included for 1919 and prior years but not for 1921 and subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers for products, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²	Horsepower
1929.....	322	2,971	\$4,080,780	\$3,811,158	\$15,036,023	\$11,224,865	2,596
1927.....	293	2,668	3,841,771	3,739,718	14,155,607	10,421,889	3,159
1925.....	323	2,930	4,015,323	4,070,322	15,320,554	11,260,232	3,658
1923.....	255	2,312	3,034,974	3,103,320	11,130,936	8,027,616	2,571
1921.....	284	2,068	2,657,418	2,785,615	9,079,097	6,293,482	(*)
1919.....	382	2,136	2,261,287	3,148,667	9,336,558	6,187,891	1,848
1914.....	384	1,707	1,148,708	1,425,562	4,485,350	3,069,788	1,355
1909.....	381	1,051	651,814	1,127,303	3,673,025	2,545,722	826
1904.....	327	1,506	797,266	736,515	2,810,952	2,074,437	685
1899.....	300	1,470	690,267	663,370	2,611,412	1,948,042	341
PER CENT OF INCREASE OR DECREASE (-)							
1927-1929.....	13.3	11.4	6.2	2.1	6.2	7.7	18.8
1925-1927.....	-9.8	-8.9	-4.3	-8.3	-7.6	-7.4	-13.6
1923-1925.....	26.7	26.7	32.3	31.2	37.6	40.1	42.3
1921-1923.....	9.0	11.8	14.2	11.4	22.6	27.6	-----
1919-1921.....	-38.7	-3.2	17.5	-11.5	-2.8	1.7	-----
1919-1929.....	-13.1	39.1	80.5	21.0	61.0	81.4	94.6
1909-1919.....	5.8	29.4	137.6	179.3	154.2	143.1	121.1
1899-1909.....	.3	12.3	36.7	69.9	40.7	30.7	145.2

¹ For 1929, manufacturers' sales (shipments or deliveries); for earlier years, production. See GENERAL EXPLANATIONS—Value of Products.

² Includes following values of miscellaneous commodities, normally belonging to other industries, made as secondary products by establishments engaged primarily in the manufacture of hand stamps and stencils and brands: 1929, \$169,757; 1927, \$1,350,140; 1925, \$837,923; no corresponding figures available for earlier years. Does not include following values of hand stamps and stencils and brands reported as secondary products by establishments engaged primarily in other lines of manufacture: 1929, \$1,902,166; 1927, \$335,252; 1925, \$615,450; 1923, \$305,298; 1921, \$834,351; 1919, \$425,051; no corresponding figures available for earlier years.

³ Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

* Not called for on schedule.

HAND STAMPS AND STENCILS AND BRANDS

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TABLE 2.—GENERAL STATISTICS, BY STATES: 1929, 1927, AND 1919—Continued

[See note at head of this table]

STATE	Census year	Number of establishments	Salaried officers and employees ¹	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products ²	Value added by manufacture ³
					Total	Prime movers	Motors run by purchased energy			Total	Materials and containers	Fuel and purchased energy		
Groups of States: Kans., 1 est.; Nebr., 2.....	1929	3	6	14	9	-----	9	\$16,730	\$20,459	\$13,726	\$12,462	\$1,264	\$50,061	\$66,355
Other States (Ark., 2 est.; Fla., 1; Ind., 5; Ky., 2; Me., 1; Mont., 1; Utah, 1; Wis., 3).....	1929	16	29	185	399	-----	399	66,371	229,596	186,373	176,019	10,354	860,305	613,932
States not shown separately.....	⁴ 1927	22	77	231	280	-----	280	119,382	308,119	300,235	289,811	10,424	1,017,533	717,298
	⁵ 1919	129	201	501	457	27	430	291,517	527,421	692,888	674,445	18,443	2,162,945	1,470,037

¹ Not including proprietors and firm members, as follows: For 1929, 211; 1927, 220; 1919, 377. The total numbers of persons engaged—proprietors and firm members, salaried officers and employees, and wage earners—as reported for the industry, are as follows: For 1929, 4,112; 1927, 3,963; 1919, 3,341.
² For 1929, sales (shipments or deliveries) by manufacturers; for earlier years, production. See GENERAL EXPLANATIONS—Value of Products.
³ Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.
⁴ Withheld from publication in order to avoid disclosing data for individual establishments.
⁵ Arkansas, 1 establishment; Colorado, 3; Indiana, 5; Kansas, 2; Kentucky, 2; Maine, 1; Nebraska, 2; Oregon, 2; Utah, 1; Wisconsin, 3.
Alabama, 1 establishment; Arkansas, 2; California, 21; Florida, 2; Georgia, 3; Indiana, 10; Kansas, 3; Kentucky, 6; Louisiana, 3; Maine, 4; Maryland, 5; Missouri, 9; Montana, 1; Nebraska, 2; New Hampshire, 2; North Carolina, 2; North Dakota, 2; Oregon, 4; Rhode Island, 7; South Carolina, 2; South Dakota, 1; Tennessee, 5; Texas, 7; Utah, 2; Vermont, 1; Virginia, 4; Washington, 11; West Virginia, 2; Wisconsin, 5.

TABLE 3.—PRIME MOVERS, MOTORS, AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY—NUMBER AND RATED CAPACITY OF PRIME MOVERS AND ELECTRIC MOTORS, 1929, 1927, 1925, 1919, AND 1914; QUANTITY OF ELECTRIC ENERGY PURCHASED, 1929

TYPE	1929		1927		1925		1919		1914		PER CENT DISTRIBUTION OF RATED HORSEPOWER CAPACITY	
	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	1929	1919
Prime movers and electric motors driven by purchased energy, aggregate.....	1,922	Horse-power 3,596	1,595	Horse-power 3,159	1,559	Horse-power 3,658	702	Horse-power 1,848	432	Horse-power 1,355	100.0	100.0
Prime movers, total.....	2	45	1	15	7	655	13	556	20	453	1.3	30.1
Steam engines.....					1	500	8	535	7	328	-----	29.0
Internal-combustion engines.....	2	45	1	15	5	146	4	17	13	125	1.3	0.9
Water wheels and water turbines.....					1	10	1	4			-----	0.2
Electric motors driven by purchased energy.....	1,920	3,551	1,594	3,144	1,552	3,002	689	1,292	412	902	98.7	69.9
Electric motors, total.....	1,920	3,551	1,594	3,144	1,552	3,002	797	1,579	415	957	100.0	100.0
Driven by purchased energy.....	1,920	3,551	1,594	3,144	1,552	3,002	689	1,292	412	902	100.0	81.8
Driven by energy generated in establishments reporting.....							108	287	3	55	-----	18.2
Electric energy purchased ¹		Kilowatt-hours 2,682,457		(?)		(?)		(?)		(?)	-----	-----

¹ This item covers the consumption of purchased electric energy for all purposes—power, heat, light, etc.
² Data incomplete.
³ Not called for on schedule.

CENSUS OF MANUFACTURES: 1929

TABLE 4.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1929, 1925, 1919, 1914, AND 1909, AND BY STATES, 1929

[This table presents statistics for only those States for which figures can be given without disclosing data for individual establishments. The sum of the State items in any column is not, therefore, equal to the United States total at the head of the column. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures]

STATE	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum	
		January	February	March	April	May	June	July	August	September	October	November	December		
United States:															
1929	2,971	2,941	<i>2,894</i>	2,974	2,955	2,957	2,975	2,938	2,943	2,981	3,000	3,029	3,022	96.9	
1925	2,930	2,880	2,905	2,913	2,912	2,913	2,889	<i>2,841</i>	2,880	2,939	3,000	3,032	3,060	92.8	
1919	2,136	<i>2,059</i>	2,080	2,105	2,110	2,106	2,095	2,153	2,090	2,160	2,187	2,235	2,252	91.4	
1914	1,787	1,830	1,844	1,838	1,836	1,824	1,802	1,737	<i>1,646</i>	1,677	1,706	1,707	1,757	89.3	
1909	1,651	1,667	1,657	1,650	1,646	1,640	1,620	<i>1,565</i>	1,566	1,647	1,686	1,713	1,738	90.0	
California	249	259	256	263	252	252	244	<i>239</i>	245	240	245	246	244	90.9	
Colorado	46	42	42	<i>42</i>	42	43	46	44	47	46	47	48	48	87.5	
Connecticut	65	63	63	64	64	63	65	66	64	67	68	68	68	92.6	
District of Columbia	31	30	30	30	30	31	32	32	31	30	31	32	32	93.8	
Georgia	26	26	26	26	26	26	26	26	26	26	26	26	26		
Illinois	456	458	459	461	454	449	448	468	445	462	461	468	466	93.6	
Iowa	8	6	6	6	7	8	8	8	8	9	11	12	12	60.0	
Louisiana	24	24	24	24	24	24	24	24	24	24	24	24	24		
Maryland	9	9	9	9	9	9	9	9	9	9	9	9	9		
Massachusetts	133	131	133	134	133	132	132	133	127	131	133	138	135	92.0	
Michigan	89	81	82	86	89	87	90	92	92	93	93	92	91	87.1	
Minnesota	48	47	49	48	48	46	46	48	47	50	49	52	50	88.5	
Missouri	76	75	72	77	77	77	78	76	76	74	76	78	78	92.3	
New Jersey	135	123	<i>120</i>	127	127	129	142	135	138	133	146	149	150	76.9	
New York	661	667	666	663	661	662	660	656	652	662	658	663	663	97.8	
Ohio	175	176	<i>164</i>	172	168	169	190	179	177	177	175	170	166	86.3	
Oklahoma	10	10	10	10	10	10	10	10	10	10	10	10	10		
Oregon	12	<i>12</i>	<i>12</i>	<i>12</i>	<i>12</i>	<i>12</i>	<i>12</i>	<i>12</i>	<i>12</i>	<i>12</i>	<i>12</i>	<i>12</i>	<i>12</i>	92.3	
Pennsylvania	378	<i>363</i>	372	381	379	376	373	374	376	380	380	386	393	92.4	
Rhode Island	20	19	18	18	19	19	19	19	20	21	21	21	21	85.7	
Tennessee	14	<i>12</i>	<i>12</i>	13	13	13	13	13	13	13	20	20	14	60.0	
Texas	38	38	38	38	38	38	38	38	38	38	38	38	38		
Virginia	33	34	35	33	33	33	33	33	33	32	32	31	31	88.6	
Washington	37	37	37	37	38	37	36	36	35	36	36	36	36	92.1	

HATS, STRAW, MEN'S

Description of the industry.—This industry embraces establishments engaged primarily in the manufacture, either from the straw or from purchased shells, of men's straw hats or of men's, women's, and children's harvest hats, and in bleaching, shaping, and finishing Panama and other straw hats for men's wear. At censuses prior to that for 1927 the "Hats, straw"

industry embraced all establishments engaged in the manufacture of men's, women's, and children's straw hats; but at the censuses for 1927 and 1929 manufacturers of women's and children's straw hats, other than harvest hats, have been classified in the "Millinery" industry.

TABLE 1.—GENERAL STATISTICS, BY STATES: 1929 AND 1927

[This table presents statistics separately for each State for which figures can be given without disclosing data for individual establishments, and for the remaining States in groups]

STATE	Census year	Number of establishments	Salaried officers and employes ¹	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products ²	Value added by manufacture ³
					Total	Prime movers	Motors run by purchased energy			Total	Materials and containers	Fuel and purchased energy		
United States.....	1929	50	400	3,380	1,836	935	901	\$1,368,351	\$3,687,570	\$8,704,621	\$8,595,166	\$109,455	\$18,738,994	\$10,034,373
	1927	48	498	3,203	1,554	665	889	1,289,630	4,232,332	11,782,950	11,644,816	138,140	21,717,689	9,934,733
Per cent of increase or decrease (—).....	1927 to 1929	4.2	-19.7	3.6	18.1	40.6	1.3	6.1	-12.9	-26.1	-26.2	-26.8	-13.7	1.0
Individual States:														
Missouri.....	1929	7	109	541	163	-----	163	302,347	583,805	1,627,841	1,613,426	14,415	3,813,426	2,185,685
	1927	8	163	461	121	-----	121	253,058	642,510	2,006,477	1,990,309	16,168	3,968,694	1,982,217
New Jersey.....	1929	4	43	231	148	20	128	128,331	240,887	632,220	619,056	13,164	1,142,044	509,824
	1927	6	37	231	51	-----	51	67,110	306,571	810,621	791,043	19,578	1,022,703	812,082
New York.....	1929	24	123	1,210	250	-----	250	513,555	1,630,468	3,777,864	3,749,590	28,268	8,161,458	4,382,689
	1927	19	167	1,009	298	-----	298	488,482	1,875,989	5,699,817	5,670,511	29,306	9,587,155	3,887,338
Groups of States:														
Md., 3 est., Mass., 4; Pa., 1.....	1929	8	105	1,179	1,212	915	297	363,162	1,124,960	2,092,350	2,042,604	49,746	4,403,641	2,311,291
Other States (Ill., 2 est.; Minn., 1; Ohio, 1; Tex., 3).....	1929	7	20	219	63	-----	63	60,956	107,430	574,346	570,484	3,862	1,218,430	644,084
States not shown separately.....	1927	16	141	1,672	1,084	665	419	480,980	1,407,262	3,266,041	3,192,953	73,088	6,519,137	3,253,096

¹ Not including proprietors and firm members, as follows: For 1929, 12; 1927, 11. The total numbers of persons engaged—proprietors and firm members, salaried officers and employes, and wage earners—as reported for the industry, are as follows: For 1929, 3,792; 1927, 3,772.

² The figures for 1929 refer to sales (shipments or deliveries) by manufacturers; those for earlier years represent production. See GENERAL EXPLANATIONS—Value of Products.

³ Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

⁴ No comparable figures are available for years prior to 1927.

⁵ Connecticut, 1 establishment; Illinois, 1; Maryland, 4; Massachusetts, 4; Ohio, 1; Pennsylvania, 2; Texas, 3.

TABLE 2.—PRODUCTS, BY KIND, NUMBER, AND VALUE, FOR THE UNITED STATES: 1929 AND 1927

[The figures for 1929 refer to sales (shipment or deliveries) by manufacturers; those for earlier years represent production. See GENERAL EXPLANATIONS—Value of Products]

KIND	1929		1927		KIND	1929		1927	
	Dozens	Value	Dozens	Value		Dozens	Value	Dozens	Value
1. Men's straw-hat industry, all products, total value.....		\$18,738,994		\$21,717,689	Men's straw hats—Continued.				
2. Men's straw hats.....		18,262,906		21,249,247	Sewed-braid hats, total.....	714,530	\$13,290,847	705,332	\$13,565,679
3. Other products (not normally belonging to the industry).....		248,104		246,367	Made complete in the plant.....	610,637	11,489,852	627,197	11,804,266
4. Receipts for contract work.....		227,984		222,075	Finished from purchased domestic shells.....	32,950	637,170	23,322	550,901
5. Men's straw hats made as secondary products in other industries, value.....		4,366,578		5,402,906	Finished from imported shells.....	70,943	1,172,825	54,813	1,210,512
Men's straw hats, all industries: Aggregate value (sum of 2 and 5).....		22,629,484		26,652,153	Woven-body hats (except harvest hats).....	135,182	4,850,152	315,277	8,899,717
					Harvest hats, total.....	1,307,403	4,479,485	1,341,058	4,186,757
					Men's.....	1,033,043	3,302,098	1,027,743	3,260,674
					Women's.....	164,734	633,909	138,939	395,099
					Children's.....	109,626	543,418	174,376	530,984

CENSUS OF MANUFACTURES: 1929

TABLE 3.—PRIME MOVERS, MOTORS, GENERATORS, AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY—NUMBER AND RATED CAPACITY OF PRIME MOVERS, ELECTRIC MOTORS, AND GENERATORS, 1929 AND 1927; QUANTITY OF ELECTRIC ENERGY PURCHASED, 1929

TYPE	1929		1927		Per cent distribution of rated horse-power capacity, 1929	TYPE	1929		1927		Per cent distribution of rated horse-power capacity, 1929
	Number	Capacity	Number	Capacity			Number	Capacity	Number	Capacity	
Prime movers and electric motors driven by purchased energy, aggregate.....	526	Horse-power 1,836	461	Horse-power 1,554	100.0	Electric motors, total.....	601	Horse-power 1,241	528	Horse-power 1,226	100.0
Prime movers, total.....	10	935	8	665	50.9	Driven by purchased energy.....	516	901	453	889	72.6
Steam engines.....	8	875	7	625	47.7	Driven by energy generated in establishments reporting.....	85	340	75	337	27.4
Internal-combustion engines.....	1	20			1.0						
Water wheels and water turbines.....	1	40	1	40	2.2						
Electric motors driven by purchased energy.....	516	901	453	889	49.1	Electric generators.....	7	Kilowatts 554	6	Kilowatts 350	
						Electric energy purchased ¹		Kilowatt-hours 1,034,933		(?)	

¹ This item covers the consumption of purchased electric energy for all purposes—power, heat, light, etc.

² Data incomplete.

TABLE 4.—WAGE EARNERS, BY MONTHS, BY STATES: 1929

[This table presents statistics for only those States for which figures can be given without disclosing data for individual establishments. The sum of the State items in any column is not, therefore, equal to the United States total at the head of the column. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures]

STATE	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum
		January	February	March	April	May	June	July	August	September	October	November	December	
United States.....	3,380	3,951	4,080	4,100	4,145	3,960	3,192	2,138	1,543	2,348	3,203	3,805	4,090	37.2
Missouri.....	541	537	569	570	646	632	522	413	457	480	517	573	593	63.9
New Jersey.....	231	266	261	248	262	266	232	224	48	157	254	276	277	17.3
New York.....	1,210	1,554	1,607	1,630	1,636	1,584	1,065	714	295	610	920	1,333	1,570	18.0

INSTRUMENTS, PROFESSIONAL AND SCIENTIFIC

Description of the industry.—The establishments classified in this industry are engaged primarily in the manufacture of such classes of products as the following: Surgical, dental, and veterinary instruments; physicians' diagnostic apparatus; surveyors', nautical, aeronautical, automotive, and similar instruments; precision and measuring instruments; indicating and recording instruments; hypodermic syringes; needle-gage dials; speedometers; barometers and thermometers; compasses; dental mirrors; and dental-

engine equipment. (Manufacturers of ophthalmic and optical instruments, such as optical testing and measuring instruments, microscopes, telescopes, etc., are classified in the "Optical goods" industry.)

Detailed statistics of products withheld from publication.—In order to avoid disclosing an approximation of the data reported by individual establishments, no detailed statistics showing values of individual products or classes of products are given in this report.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1929

[Data for establishments with products under \$5,000 in value included for 1919 and prior years but not for 1921 and subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers for products, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²	Horsepower
1929	276	16,576	\$22,682,052	\$26,411,430	\$89,746,369	\$61,334,639	22,816
1927	280	16,414	22,288,973	28,880,222	87,783,488	58,903,266	25,587
1925	233	12,129	16,166,202	20,428,088	76,338,739	55,910,651	17,585
1923	258	12,275	15,502,679	18,039,523	63,074,391	45,034,688	16,203
1921	266	9,384	11,699,950	13,326,311	42,131,845	28,805,634	(³)
1919	351	15,931	17,499,888	19,494,634	58,136,691	38,642,057	12,981
1914	307	7,107	4,652,105	5,581,722	17,494,729	11,613,007	6,731
1909	263	4,817	2,925,087	2,917,984	10,505,601	7,585,617	4,640
1904	225	3,437	1,823,205	1,350,153	5,377,755	4,027,662	1,841
1899	261	2,775	1,428,885	1,362,581	4,853,335	3,490,754	2,004
PER CENT OF INCREASE OR DECREASE (-)							
1927-1929	-1.4	2.8	1.8	-1.6	2.2	4.1	-10.8
1925-1927	20.2	35.3	37.9	41.4	15.0	5.4	48.4
1923-1925	-9.7	-1.2	4.3	13.2	21.0	24.1	8.9
1921-1923	-3.0	30.8	32.5	35.4	49.7	56.3	
1919-1921	-24.2	-41.1	-33.1	-31.6	-27.5	-25.5	
1919-1929	-21.4	5.9	29.6	45.7	54.4	58.7	75.8
1909-1919	33.5	230.7	498.3	568.1	453.5	409.4	179.8
1899-1909	0.8	73.6	104.7	114.2	116.4	117.3	131.5

¹ For 1929, manufacturers' sales (shipments or deliveries); for earlier years, production. See GENERAL EXPLANATIONS—Value of Products.

² Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

³ Not called for on schedule.

CENSUS OF MANUFACTURES: 1929

TABLE 2.—GENERAL STATISTICS, BY STATES: 1929, 1927, AND 1919

[This table presents statistics separately for each State for which figures can be given without disclosing data for individual establishments, and for the remaining States in groups. Data for establishments with products under \$5,000 in value are included for 1919 but not for subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

STATE	Cen- sus year	Number of estab- lish- ments	Salar- ied offi- cers and em- ploy- ees ¹	Wage earners (aver- age for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products ²	Value added by manu- facture ³
					Total	Prime movers	Motors run by pur- chased energy			Total	Materials and con- tainers	Fuel and pur- chased energy		
United States.....	1929	276	4,185	16,876	22,816	2,290	20,526	\$11,014,706	\$22,682,052	\$28,411,430	\$27,493,060	\$918,370	\$89,746,369	\$61,334,939
	1927	280	3,659	16,414	25,587	2,001	23,586	8,893,555	22,283,973	28,880,222	27,970,856	909,366	87,783,458	58,903,266
	1919	351	3,603	15,931	12,981	3,624	49,357	7,061,646	17,499,888	19,494,034	18,918,600	576,034	58,138,691	38,642,067
Individual States:														
California.....	1929	14	19	90	155		155	61,192	136,894	116,241	113,028	3,213	419,785	309,544
	1927	7	25	58	181		181	65,979	83,082	88,359	85,491	2,868	338,222	249,863
	1919	9	26	97	137		137	39,574	104,344	209,061	207,166	1,895	413,059	304,598
Colorado.....	1929	3	6	35	92		92	22,225	45,200	17,006	15,250	1,756	131,861	114,855
	1927	3	6	34	69		69	13,700	53,254	16,868	14,596	2,272	122,296	105,428
Illinois.....	1929	39	762	3,982	6,855		6,855	1,927,228	5,985,176	5,027,263	4,819,097	203,106	18,331,606	13,304,343
	1927	43	736	4,078	6,857	275	6,582	1,826,475	5,873,368	6,926,540	6,671,668	254,872	22,121,743	16,195,203
	1919	33	557	3,621	3,043	175	2,873	1,058,803	4,258,345	5,982,743	5,854,084	128,659	14,880,789	8,896,046
Massachusetts.....	1929	25	254	671	759	15	744	638,765	959,486	1,240,253	1,201,151	39,107	5,142,346	3,902,088
	1927	26	182	643	645	15	630	448,926	870,935	947,873	912,537	35,336	3,853,473	2,905,600
	1919	25	193	782	608	165	443	342,275	851,032	914,357	886,121	28,236	2,894,515	1,980,158
Missouri.....	1929	7	36	204	301		301	91,575	274,439	248,495	231,742	16,753	1,087,031	838,536
	1927	7	43	250	359		359	102,708	209,340	219,135	201,840	17,286	928,135	709,000
	1919	7	118	391	385	30	355	468,686	374,267	460,699	456,751	9,948	1,565,600	1,098,801
New York.....	1929	88	1,251	3,456	3,534	435	3,099	3,252,039	5,042,713	5,586,328	5,393,888	192,440	23,405,166	17,318,838
	1927	90	1,099	3,606	6,857	746	6,227	2,998,842	5,263,873	6,535,396	6,355,168	180,233	25,010,251	18,474,855
	1919	132	1,628	5,497	4,232	796	3,436	3,043,310	6,205,505	6,418,082	6,211,408	206,674	21,165,135	14,747,053
Ohio.....	1929	12	68	377	424	25	399	151,615	435,226	329,058	309,657	19,401	1,488,914	1,159,856
	1927	15	73	431	580	50	530	179,931	523,993	555,887	523,453	27,434	1,952,394	1,306,507
	1919	20	106	601	415	125	290	176,344	534,326	338,295	321,734	16,561	1,423,501	1,085,206
Pennsylvania.....	1929	39	719	2,228	2,329	615	1,714	1,851,982	2,633,453	3,781,416	3,677,238	104,178	12,070,345	8,288,929
	1927	42	640	1,942	2,329	770	1,559	1,464,222	2,578,714	3,777,452	3,677,750	90,702	10,550,941	6,773,489
	1919	59	363	1,701	1,211	596	615	769,657	1,822,591	2,273,400	2,189,402	83,998	6,435,564	4,162,164
Rhode Island.....	1929	4	37	157	169		169	100,729	216,904	121,635	113,743	7,892	604,500	482,865
Groups of States:														
D. C., 1 est.; Md., 3.....	1929	4	31	123	92		92	76,166	136,160	114,632	111,882	2,750	422,520	307,888
Other States (Conn., 5 est.; Fla., 1; Ga., 1; Ind., 3; Kans., 2; Me., 1; Mich., 10; Minn., 1; N. J., 10; Oreg., 1; Tenn., 1; Wash., 2; Wis., 3).....	1929	41	1,002	5,553	8,106	1,200	6,906	2,841,190	6,816,401	11,829,098	11,506,384	322,714	26,642,205	14,813,197
States not shown separately.....	1927	47	846	5,372	7,494	145	7,349	1,597,772	6,772,403	9,812,712	9,523,349	289,363	22,906,033	13,003,321
	1919	66	617	3,241	2,984	1,737	1,247	1,162,997	3,346,478	2,891,997	2,791,934	100,063	9,358,028	6,466,031

¹ Not including proprietors and firm members, as follows: For 1929, 124; 1927, 197; 1919, 248. The total numbers of persons engaged—proprietors and firm members, salaried officers and employees, and wage earners—as reported for the industry, are as follows: For 1929, 21,185; 1927, 20,270; 1919, 19,787.

² For 1929, manufacturers' sales (shipments or deliveries); for earlier years, production. See GENERAL EXPLANATIONS—Value of Products.

³ Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

⁴ Data for purchased power other than electric (power transmitted into the plant by belt or shaft) are included in the State items for 1919 but not in the United States totals.

⁵ Connecticut, 4 establishments; District of Columbia, 1; Indiana, 2; Iowa, 1; Kansas, 1; Maine, 1; Maryland, 3; Michigan, 8; Minnesota, 2; New Jersey, 9; Oregon, 1; Rhode Island, 3; Tennessee, 1; Washington, 3; Wisconsin, 7.

⁶ Alabama, 2 establishments; Colorado, 3; Connecticut, 6; District of Columbia, 3; Indiana, 4; Iowa, 4; Kansas, 1; Maryland, 4; Michigan, 4; Minnesota, 3; New Hampshire, 1; New Jersey, 19; Oregon, 1; Rhode Island, 1; Texas, 1; Washington, 4; Wisconsin, 5.

INSTRUMENTS, PROFESSIONAL AND SCIENTIFIC

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TABLE 3.—PRIME MOVERS, MOTORS, GENERATORS, AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY—NUMBER AND RATED CAPACITY OF PRIME MOVERS AND ELECTRIC MOTORS, 1929, 1927, 1925, 1919, AND 1914, AND OF GENERATORS, 1929, 1927, AND 1925; QUANTITY OF ELECTRIC ENERGY PURCHASED, 1929

TYPE	1929		1927		1925		1919		1914		PER CENT DISTRIBUTION OF RATED HORSEPOWER CAPACITY	
	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	1929	1919
Prime movers and electric motors driven by purchased energy, aggregate	7,718	Horse-power 22,816	7,398	Horse-power 25,587	4,345	Horse-power 17,595	1,939	Horse-power 12,981	753	Horse-power 6,731	100.0	100.0
Prime movers, total	17	2,290	22	2,001	25	1,560	55	3,624	83	3,848	10.0	27.9
Steam, total	14	2,240	15	1,784	13	1,395	25	3,204	34	3,037	9.8	24.7
Engines	14	2,240	14	1,709	13	1,395	25	3,204	(1)	(1)	9.8	24.7
Turbines			1	75					(1)	(1)		
Internal-combustion engines	3	50	7	217	12	165	29	395	49	811	0.2	3.0
Water wheels and water turbines							1	.5				0.2
Electric motors driven by purchased energy	7,701	20,526	7,376	23,586	4,320	16,035	1,884	9,357	670	2,883	90.0	72.1
Electric motors, total	8,788	22,870	8,190	25,694	4,572	16,636	2,689	12,056	1,114	4,739	100.0	100.0
Driven by purchased energy	7,701	20,526	7,376	23,586	4,320	16,035	1,884	9,357	670	2,883	89.8	77.6
Driven by energy generated in establishments reporting	1,087	2,344	814	2,108	252	601	805	2,699	444	1,856	10.2	22.4
Electric generators	10	Kilowatts 1,398 Kilowatt-hours 21,726,275	13	Kilowatts 1,040	14	Kilowatts 935	(?)	(?)	(?)	(?)		
Electric energy purchased ¹				(?)		(?)		(?)		(?)		

¹ Not called for separately on schedule.

² Not called for on schedule.

³ This item covers the consumption of purchased electric energy for all purposes—power, heat, light, etc.

⁴ Data incomplete.

TABLE 4.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1929, 1925, 1919, 1914, AND 1909, AND BY STATES, 1929

[This table presents statistics for only those States for which figures can be given without disclosing data for individual establishments. The sum of the State items in any column is not, therefore, equal to the United States total at the head of the column. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures]

STATE	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Percent minimum is of maximum	
		January	February	March	April	May	June	July	August	September	October	November	December		
United States:															
1929	16,876	16,509	17,209	17,840	17,738	17,979	17,690	17,283	16,957	17,538	16,183	15,206	14,574	79.9	
1925	12,120	<i>11,145</i>	11,331	11,530	11,856	12,166	12,297	12,062	12,113	12,608	12,628	12,877	12,745	86.2	
1919	15,931	16,230	16,274	15,602	15,588	15,675	15,791	16,111	15,810	15,925	15,989	16,260	15,931	95.7	
1914	7,107	<i>6,670</i>	6,798	7,101	7,161	7,255	7,257	7,301	7,088	7,213	7,184	6,998	6,880	88.2	
1909	4,817	<i>4,500</i>	4,562	4,665	4,768	4,797	4,787	4,822	4,722	4,917	5,003	5,103	5,167	87.1	
California	90	87	86	87	88	90	90	70	93	95	97	98	104	67.3	
Colorado	35	<i>32</i>	33	35	37	39	38	36	37	34	35	35	34	82.1	
Illinois	3,982	4,020	4,196	4,529	4,412	4,523	4,516	4,048	4,048	4,458	3,438	3,090	2,511	55.4	
Massachusetts	671	<i>630</i>	638	656	650	663	660	673	685	701	704	705	692	80.4	
Missouri	204	213	218	218	208	207	202	194	197	202	208	196	183	83.0	
New York	3,456	3,081	3,168	3,193	3,265	3,402	3,481	3,538	3,548	3,603	3,668	3,781	3,767	81.5	
Ohio	377	<i>300</i>	314	337	341	361	346	360	393	417	438	465	449	64.5	
Pennsylvania	2,228	2,089	2,138	2,173	2,248	2,311	2,377	2,307	2,262	2,239	2,223	2,243	2,182	89.8	
Rhode Island	157	<i>157</i>	160	161	167	169	176	136	150	165	155	144	138	77.3	

IVORY, SHELL, AND BONE WORK, NOT INCLUDING BUTTONS, COMBS, OR HAIRPINS

Description of the industry.—The principal products of the establishments in this industry are mosaics, knife handles and tips, buckles and other fittings for jewelers' use, manicure implements, watch chains

and fobs, stick pins, inlaying for musical instruments, and other articles (not including buttons, combs, and hairpins) made from ivory, shell, horn, or bone.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1929

[Data for establishments with products under \$5,000 in value included for 1919 and prior years but not for 1921 and subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers for products, fuel, and purchased electric energy	Value of products ^{1, 2}	Value added by manufacture ³	Horsepower
1929	21	391	\$424, 783	\$517, 325	\$1, 260, 426	\$743, 101	042
1927	22	294	329, 782	328, 067	911, 342	633, 275	699
1925	29	488	554, 972	727, 605	1, 579, 469	1, 151, 964	892
1923	30	603	662, 958	1, 120, 833	2, 441, 127	1, 320, 294	880
1921	39	674	689, 818	1, 143, 711	2, 595, 375	1, 251, 604	(1)
1919	44	842	734, 932	1, 293, 876	2, 816, 530	1, 522, 654	870
1914	54	795	391, 338	958, 051	1, 895, 812	937, 761	650
1909	52	997	466, 421	962, 279	1, 865, 427	903, 148	916
1904	66	1, 799	777, 463	1, 380, 597	2, 863, 602	1, 483, 005	1, 116
1899	70	1, 334	529, 061	930, 224	1, 873, 357	643, 133	703
PER CENT OF INCREASE OR DECREASE (—)							
1927-1929	(5)	33.0	28.8	57.7	38.3	27.4	7.2
1925-1927	(5)	-39.8	-40.0	-54.9	-51.5	-49.4	-32.8
1923-1925	(5)	-19.1	-16.3	-35.1	-23.0	-12.7	1.4
1921-1923	(5)	-10.5	-3.9	-2.0	1.9	5.5	-----
1919-1921	(5)	-20.0	-6.1	-11.6	-15.0	-17.8	-----
1919-1929	(5)	-53.6	-42.2	-60.0	-55.2	-51.2	-27.0
1909-1919	(5)	-7.2	57.6	34.5	51.0	68.6	-4.0
1899-1909	(5)	-32.0	-11.8	8.4	-0.4	-4.2	30.3

¹ For 1929, manufacturers' sales (shipments or deliveries); for earlier years, production. See GENERAL EXPLANATIONS—Value of Products.

² Includes value of miscellaneous products, normally belonging to other industries, made as secondary products by establishments in this industry, as follows: 1929, \$14,886; 1927, \$177,798; 1925, \$179,894; corresponding amounts for earlier years not available. Does not include the following values of ivory, shell, and bone work reported by establishments engaged primarily in other lines of manufacture: 1929, \$75,719; 1927, \$143,130; 1925, \$426,266; 1923, \$461,660; 1921, \$218,001; 1919, \$92,722; corresponding amounts for earlier years not available.

³ Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

⁴ Not called for on schedule.

⁵ Per cent not computed where base is less than 100.

TABLE 2.—GENERAL STATISTICS, BY STATES: 1929, 1927, AND 1919

[This table presents statistics separately for each State for which figures can be given without disclosing data for individual establishments, and for the remaining States in groups. Certain of the States shown in combination, however, reported larger values of products than Rhode Island; and one of them, namely, Connecticut, reported a larger value than any of the States shown separately. Data for establishments with products under \$5,000 in value are included for 1919 but not for subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

STATE	Census year	Number of establishments	Salaried officers and employees ¹	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products ²	Value added by manufacture ³
					Total	Prime movers	Motors run by purchased energy			Total	Materials and containers	Fuel and purchased energy		
United States	1929	21	36	391	642	190	462	\$88, 627	\$424, 783	\$517, 325	\$491, 882	\$25, 443	\$1, 260, 426	\$743, 101
	1927	22	38	294	599	190	409	85, 296	329, 782	328, 067	304, 335	23, 732	911, 342	583, 275
	1919	44	104	842	879	485	894	217, 750	734, 932	1, 293, 876	1, 250, 506	43, 370	2, 816, 530	1, 522, 654
Individual States:														
California	1929	3	9	71	132	-----	132	19, 833	81, 503	78, 064	75, 717	3, 247	224, 238	145, 274
	1927	4	7	55	115	-----	115	14, 100	71, 782	78, 957	75, 385	3, 572	223, 397	149, 440
	1919	3	10	37	32	-----	32	14, 209	37, 431	26, 539	25, 164	1, 375	118, 989	92, 450
New York	1929	5	6	29	69	-----	69	18, 420	47, 258	44, 876	41, 015	3, 861	146, 404	101, 585
	1927	8	8	25	57	-----	57	18, 409	40, 493	40, 758	37, 613	3, 145	126, 014	85, 256
	1919	13	22	184	91	12	70	41, 204	110, 441	240, 987	245, 058	1, 929	488, 353	241, 365
Rhode Island	1929	3	2	21	15	-----	15	2, 100	22, 263	31, 686	30, 809	776	78, 445	40, 800
Groups of States:														
N. J., 2 est.; Pa., 1	1929	3	5	103	154	75	79	9, 010	102, 020	161, 612	154, 845	6, 767	323, 093	161, 481
Other States (Conn., 1 est.; Fla., 1; Ill., 1; Iowa, 1; Mass., 2; Mo., 1)	1929	7	14	167	272	115	157	39, 264	171, 739	200, 288	189, 496	10, 792	488, 186	287, 898
States not shown separately	⁵ 1927	10	23	214	427	190	237	52, 787	217, 477	208, 352	191, 337	17, 015	556, 931	348, 579
	⁶ 1919	28	72	621	831	473	358	162, 337	587, 060	1, 020, 350	980, 284	40, 066	2, 209, 188	1, 188, 838

¹ Not including proprietors and firm members, as follows: For 1929, 17; 1927, 25; 1919, 45. The total numbers of persons engaged—proprietors and firm members, salaried officers and employees, and wage earners—are as follows: For 1929, 444; 1927, 357; 1919, 601.

² The figures for 1929 refer to sales (shipments or deliveries) by manufacturers; those for earlier years represent production. See GENERAL EXPLANATIONS—Value of Products.

³ Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

⁴ Data for purchased power other than electric (power transmitted into the plant by belt or shaft) are included in the State items for 1919 but not in the United States totals.

⁵ Connecticut, 1 establishment; Iowa, 1; Massachusetts, 2; New Jersey, 3; Rhode Island, 2; Washington, 1.

⁶ Connecticut, 2 establishments; Illinois, 3; Iowa, 2; Massachusetts, 6; New Jersey, 8; Pennsylvania, 2; Rhode Island, 3; Washington, 2.

IVORY, SHELL, AND BONE WORK

1309

TABLE 3.—PRIME MOVERS, MOTORS, AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY—NUMBER AND RATED CAPACITY OF PRIME MOVERS AND ELECTRIC MOTORS, 1929, 1927, 1925, 1919, AND 1914; QUANTITY OF ELECTRIC ENERGY PURCHASED, 1929

TYPE	1929		1927		1925		1919		1914		PER CENT DISTRIBUTION OF RATED HORSE-POWER CAPACITY	
	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	1929	1919
Prime movers and electric motors driven by purchased energy, aggregate.....	131	Horse-power 642	84	Horse-power 509	135	Horse-power 892	113	Horse-power 879	65	Horse-power 650	100.0	100.0
Prime movers, total.....	3	190	3	190	11	437	13	485	12	454	29.6	55.2
Steam engines.....	2	150	2	150	7	334	8	407	8	380	23.4	46.3
Internal-combustion engines.....					3	63	4	53	1	4		6.0
Water wheels and water turbines.....	1	40	1	40	1	40	1	25	3	70	6.2	2.9
Electric motors driven by purchased energy.....	128	452	81	409	124	455	100	394	53	196	70.4	44.8
Electric motors, total.....	128	452	81	409	124	455	101	419	53	196	100.0	100.0
Driven by purchased energy.....	128	452	81	409	124	455	100	394	53	196	100.0	94.0
Driven by energy generated in establishments reporting.....							1	25				6.0
Electric energy purchased ¹		Kilowatt-hours 380,656		(?)		(?)		(?)		(?)		

¹ This item covers the consumption of purchased electric energy for all purposes—power, heat, light, etc.

² Data incomplete.

³ Not called for on schedule.

TABLE 4.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1929, 1925, 1919, AND 1914, AND BY STATES, 1929

[This table presents statistics for only those States for which figures can be given without disclosing data for individual establishments. The sum of the State items in any column is not, therefore, equal to the United States total at the head of the column. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures]

STATE	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum
		January	February	March	April	May	June	July	August	September	October	November	December	
United States:														
1929.....	391	<i>372</i>	382	389	395	403	410	404	389	385	380	391	381	90.7
1925.....	488	494	497	482	480	469	467	462	471	505	527	504	498	87.7
1919.....	842	806	811	843	811	779	779	857	879	891	872	882	894	87.1
1914 ¹	795	804	823	821	805	787	783	780	774	805	807	793	753	92.1
California.....	71	64	68	68	75	78	83	76	75	75	72	65	65	66.3
New York.....	29	28	28	29	30	31	31	29	29	28	27	27	27	87.1
Rhode Island.....	21	21	21	22	22	20	19	20	22	21	21	21	22	86.4

¹ No comparable figures for prior years.

JEWELRY AND INSTRUMENT CASES

Description of the industry.—The establishments classified in this industry are engaged primarily in the manufacture of cases, trays, and fancy boxes for jewelry, instruments, cutlery, eyeglasses, combs, compasses, cigarettes, pipes, toilet sets, etc.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1929

[Data for establishments with products under \$5,000 in value included for 1919 and prior years but not for 1921 and subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²	Horsepower
1929.....	113	2,299	\$2,472,880	\$3,324,459	\$8,826,727	\$5,502,268	1,503
1927.....	107	2,406	2,597,056	3,293,986	8,810,065	5,516,079	1,440
1925.....	125	2,748	2,750,209	3,832,577	10,114,073	6,281,496	2,480
1923.....	111	2,977	2,904,430	4,417,256	10,506,478	6,089,222	1,662
1921.....	107	2,241	2,087,691	2,712,684	7,036,778	4,323,094	(³)
1919.....	142	2,734	2,147,648	3,506,840	8,126,300	4,620,460	1,075
1914.....	125	2,393	1,093,672	1,449,848	3,620,838	2,170,990	1,012
1909.....	120	2,070	953,666	1,221,277	3,116,519	1,895,242	386
1904.....	97	1,676	623,887	842,988	2,291,648	1,448,680	276
1899.....	63	819	322,566	435,717	1,156,977	721,260	145
PER CENT OF INCREASE OR DECREASE (-)							
1927-1929.....	5.6	-5.7	-4.8	0.9	0.2	-0.3	4.4
1925-1927.....	-14.4	-12.4	-5.6	-14.1	-12.9	-12.2	-41.5
1923-1925.....	12.6	-7.7	-5.3	-13.2	-3.7	3.2	48.0
1921-1923.....	3.7	32.8	39.1	62.8	49.3	40.0	-----
1919-1921.....	-24.6	-18.0	-2.8	-22.6	-13.4	-6.4	-----
1919-1929.....	-20.4	-17.0	15.1	-5.2	8.6	19.1	39.8
1909-1919.....	18.3	32.1	125.2	187.1	160.7	143.8	178.5
1899-1909.....	(⁴)	152.7	195.6	180.3	169.4	162.8	166.2

¹ For 1929, manufacturers' sales (shipments or deliveries); for earlier years, production. See GENERAL EXPLANATIONS—Value of Products.
² Includes values of miscellaneous products, normally belonging to other industries, made as secondary products by establishments engaged primarily in the manufacture of jewelry and instrument cases, as follows: 1929, \$75,972; 1927, \$261,531; 1925, \$373,393; corresponding amounts for earlier years not available. Does not include following values of jewelry and instrument cases made as secondary products by establishments classified in other industries: 1929, \$891,323; 1927, \$1,690,731; 1925, \$1,368,189; 1923, \$628,908; 1921, \$420,521; 1919, \$720,394; corresponding amounts for earlier years not available.
³ Value of products less cost of materials, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.
⁴ Not called for on schedule.
⁵ Per cent not computed where base is less than 100.

JEWELRY AND INSTRUMENT CASES

1311

TABLE 2.—GENERAL STATISTICS, BY STATES: 1929, 1927, AND 1919

(This table presents statistics separately for each State for which figures can be given without disclosing data for individual establishments. Certain of the "Other States," however, reported larger values of products than California. Data for establishments with products under \$5,000 in value are included for 1919 but not for subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size)

STATE	Cen- sus year	Num- ber of estab- lish- ments	Sal- aried offi- cers and em- ploy- ees ¹	Wage earners (aver- age for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products ²	Value added by manufac- ture ³
					Total	Prima movers	Motors run by pur- chased energy			Total	Materials and con- tainers	Fuel and purchased energy		
United States.....	1929	113	310	2,269	1,503	234	1,269	\$982,466	\$2,472,860	\$3,324,459	\$3,245,958	\$78,501	\$8,826,727	\$5,602,268
	1927	107	331	2,406	1,440	15	1,425	856,461	2,597,056	3,293,986	3,214,745	79,241	8,810,065	5,516,079
	1919	142	286	2,734	1,075	302	773	669,120	2,147,648	3,505,840	3,458,169	47,671	8,126,300	4,620,460
California.....	1929	4	1	12	15		15	1,500	16,237	21,359	21,117	242	80,735	59,376
	1927	4	1	11	16		16	500	12,669	13,714	13,310	404	62,962	39,268
Illinois.....	1929	6	24	194	101		101	106,217	220,524	301,909	294,088	7,821	741,241	439,332
	1927	6	21	210	153		153	46,367	220,109	317,550	308,361	9,189	808,493	490,943
	1919	8	21	222	130		130	71,722	181,247	331,207	326,961	4,246	697,719	366,512
Massachusetts.....	1929	10	73	496	420		420	225,935	410,898	744,000	721,974	22,026	1,778,315	1,029,315
	1927	12	70	458	422		422	184,871	495,542	671,528	655,306	16,222	1,624,418	952,590
	1919	10	21	365	161		161	27,110	245,434	278,343	269,579	8,764	695,515	417,172
New Jersey.....	1929	12	44	280	205	120	85	184,961	390,522	434,629	424,051	10,478	1,181,991	747,462
	1927	9	35	191	95		95	125,857	235,297	271,574	261,546	10,028	747,779	476,205
	1919	14	5	122	63	26	37	21,000	114,590	171,731	168,924	2,807	402,571	230,840
New York.....	1929	57	122	930	525	90	435	348,841	1,117,327	1,284,823	1,258,051	26,772	3,821,038	2,536,215
	1927	51	115	870	494		494	333,752	1,032,138	1,154,911	1,139,890	24,021	3,549,448	2,394,537
	1919	84	179	1,475	426	145	281	450,724	1,238,737	2,060,376	2,058,232	22,144	5,010,282	2,929,906
Pennsylvania.....	1929	9	15	134	104	24	80	34,960	145,806	209,317	204,642	4,675	513,407	304,090
	1927	7	20	108	39	15	24	37,908	93,248	168,091	164,793	3,298	386,514	218,422
	1919	6	9	60	21	6	15	19,394	39,282	80,968	80,065	903	179,166	98,198
Rhode Island.....	1929	6	16	99	60		60	48,982	76,559	104,369	101,636	2,753	306,353	201,964
	1927	8	30	264	100		100	55,695	242,087	225,382	219,418	5,964	666,179	440,797
	1919	7	36	359	175	125	50	68,810	232,532	350,629	346,328	4,301	831,362	480,738
Other States.....	1929	9	15	115	73		73	31,070	95,007	224,133	220,399	3,734	408,647	184,514
	1927	10	39	294	121		121	71,526	265,966	471,236	461,121	10,115	974,252	508,016
	1919	13	15	131	125		125	15,360	95,826	212,586	206,080	4,506	309,685	97,099

¹ Not including proprietors and firm members, as follows: For 1929, 101; 1927, 88; 1919, 146. The total numbers of persons engaged—proprietors and firm members, salaried officers and employees, and wage earners—are as follows: For 1929, 2,680; 1927, 2,825; 1919, 3,166.
² The figures for 1929 refer to sales (shipments or deliveries) by manufacturers; those for earlier years represent production. See GENERAL EXPLANATIONS—Value of Products.

³ Value of products less cost of materials, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

⁴ Data for purchased power other than electric (power transmitted into the plant by belt or shaft) are included in the State items for 1919 but not in the United States totals.

⁵ Connecticut, 2 establishments; Indiana, 1; Kentucky, 1; Maryland, 1; Michigan, 1; Missouri, 1; Ohio, 2.

⁶ Connecticut, 3 establishments; Indiana, 1; Kentucky, 1; Maryland, 1; Michigan, 1; Missouri, 2; Ohio, 1.

⁷ California, 2 establishments; Colorado, 1; Connecticut, 2; Kentucky, 1; Maryland, 1; Missouri, 3; New Hampshire, 1; Ohio, 1; Wisconsin, 1.

CENSUS OF MANUFACTURES: 1929

TABLE 3.—PRIME MOVERS, MOTORS, GENERATORS, AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY—NUMBER AND RATED CAPACITY OF PRIME MOVERS AND ELECTRIC MOTORS, 1929, 1927, 1925, 1919, AND 1914, AND OF GENERATORS, 1929, 1927, AND 1925; QUANTITY OF ELECTRIC ENERGY PURCHASED, 1929

TYPE	1929		1927		1925		1919		1914		PER CENT DISTRIBUTION OF RATED HORSEPOWER CAPACITY	
	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	1929	1919
Prime movers and electric motors driven by purchased energy, aggregate	434	Horsepower 1,563	555	Horsepower 1,440	586	Horsepower 2,460	294	Horsepower 1,075	197	Horsepower 1,012	100.0	100.0
Prime movers, total	5	234	2	15	7	467	10	302	14	253	15.6	23.1
Steam engines	1	120			4	450	2	200	2	110	8.0	13.6
Internal-combustion engines	2	24	2	15	3	17	8	102	10	138	1.6	9.5
Water wheels and water turbines	2	90							2	10	6.0	
Electric motors driven by purchased energy	629	1,269	553	1,425	579	1,993	284	773	183	754	84.4	71.9
Electric motors, total	650	1,331	553	1,425	612	2,073	303	832	195	789	100.0	100.0
Driven by purchased energy	629	1,269	553	1,425	579	1,993	284	773	183	754	95.3	92.9
Driven by energy generated in establishments reporting	21	62			33	80	19	59	12	35	4.7	7.1
Electric generators	1	Kilowatts 54 Kilowatt-hours		Kilowatts	2	Kilowatts 110	(1)	(1)	(1)	(1)		
Electric energy purchased ¹		1,102,484		(2)		(3)		(1)		(1)		

¹ Not called for on schedule.

² This item covers the consumption of purchased electric energy for all purposes—power, heat, light, etc.

³ Data incomplete.

TABLE 4.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1929, 1925, 1919, 1914, AND 1909, AND BY STATES, 1929

[This table presents statistics for only those States for which figures can be given without disclosing data for individual establishments. The sum of the State items in any column is not, therefore, equal to the United States total at the head of the column. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures.]

STATE	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum	
		January	February	March	April	May	June	July	August	September	October	November	December		
United States:															
1929	2,269	<i>2,086</i>	2,154	2,193	2,161	2,208	2,251	2,209	2,235	2,336	2,445	2,534	2,418	2,418	82.3
1925	2,743	2,538	2,633	2,730	2,773	2,733	2,609	<i>2,466</i>	2,653	2,809	3,033	3,044	2,927	2,927	82.0
1919	2,734	2,589	2,446	2,532	2,602	2,598	2,676	2,764	2,823	2,919	2,994	3,008	3,057	3,057	78.1
1914	2,393	2,294	2,303	2,338	2,359	2,353	2,318	<i>2,292</i>	2,351	2,487	2,628	2,586	2,409	2,409	87.3
1909	2,070	1,943	1,960	1,979	1,999	1,969	1,969	<i>1,937</i>	1,990	2,154	2,242	2,350	2,338	2,338	82.4
California	12	12	12	12	12	12	11	10	12	12	12	12	12	12	83.3
Illinois	194	200	196	202	197	191	183	175	179	193	201	204	202	202	85.8
Massachusetts	496	466	471	488	460	476	498	478	487	499	503	554	576	576	79.0
New Jersey	280	223	257	248	248	257	279	273	273	312	322	351	318	318	63.5
New York	939	848	881	903	901	937	927	924	925	968	1,039	1,043	974	974	81.3
Pennsylvania	134	130	132	135	133	133	135	132	135	132	133	138	133	133	94.2
Rhode Island	99	95	97	97	99	101	97	94	100	96	109	106	99	99	83.5

LAPIDARY WORK

Description of the industry.—This industry embraces establishments engaged primarily in the cutting, recutting, polishing, and setting of diamonds and other precious and semiprecious stones, and the drilling of pearls; the preparation of jewels for watches and chronometers and for surveyors' instruments; and the preparation of real and imitation stones for emblems. This work is done to some extent on a contract basis on

materials owned by others, and the establishments which operate on this basis report their receipts for work done as "value of products." Some jewelry manufacturers cut stones for their own use, but do not report the value of such work separately; consequently some overlapping occurs between the "Jewelry" and "Lapidary work" industries.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1929

[Data for establishments with products under \$5,000 in value included for 1919 and prior years but not for 1921 and subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers for products, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²	Horsepower
1929	100	506	\$1,001,706	\$8,234,889	\$11,942,421	\$3,737,532	474
1927	92	547	1,220,647	9,133,059	12,351,603	3,218,444	513
1925	83	589	1,284,991	7,272,868	10,122,782	2,849,914	515
1923	87	644	1,286,291	5,887,061	9,129,842	3,242,781	566
1921	84	399	737,622	2,840,309	4,345,214	1,504,905	(*)
1919	124	1,155	2,837,811	19,363,004	30,051,460	10,088,456	680
1914	89	584	641,444	3,940,761	5,360,064	1,419,303	534
1911	77	627	889,485	6,590,449	9,172,832	2,612,383	611
1909	54	507	656,627	6,223,075	7,646,814	1,423,139	485
1904	60	498	498,715	4,655,765	5,786,281	1,130,516	141
1899							
PER CENT OF INCREASE OR DECREASE (—)							
1927-1929	(*)	-7.5	-17.9	-9.8	-3.3	15.2	-7.6
1925-1927	(*)	-7.1	-5.0	25.6	22.0	12.9	-0.4
1923-1925	(*)	-8.5	-0.1	23.5	10.9	-12.1	-9.0
1921-1923	(*)	61.4	74.3	107.3	110.1	115.5	
1919-1921	-48.4	-65.5	-74.0	-85.3	-85.5	-85.9	
1919-1929	-19.4	-56.2	-64.7	-57.5	-60.3	-65.3	-30.3
1909-1919	(*)	84.2	219.0	195.1	227.6	369.1	11.3
1899-1909	(*)	25.9	78.4	40.9	58.5	131.1	333.3

¹ For 1929, manufacturers' sales (shipments or deliveries); for earlier years, production. See GENERAL EXPLANATIONS—Value of Products.
² Includes values of miscellaneous products normally belonging to other industries, made as secondary products by establishments engaged primarily in lapidary work, as follows: 1929, \$16,765; 1927, \$29,200; 1925, \$138,555; corresponding amounts for earlier years not available. Does not include following values of lapidary work reported by establishments engaged primarily in other lines of manufacture: 1929, \$1,914; 1925, \$5,924; 1921, \$30,642; 1919, \$21,124. No comparable data for other years.
³ Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.
⁴ Not called for on schedule.
⁵ Per cent not computed where base is less than 100.

CENSUS OF MANUFACTURES: 1929

TABLE 2.—GENERAL STATISTICS FOR THE UNITED STATES AND FOR NEW YORK: 1929, 1927, AND 1919

[New York is the only State for which figures can be given without disclosing data for individual establishments. Data for establishments with products under \$5,000 in value are included for 1919 but not for subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

STATE	Census year	Number of establishments	Salaried officers and employees ¹	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products ²	Value added by manufacture ³
					Total	Prime movers	Motors run by purchased energy			Total	Materials and containers	Fuel and purchased energy		
United States.....	1929	100	123	506	474	5	469	\$396,877	\$1,001,706	\$8,234,889	\$8,213,918	\$20,971	\$11,942,421	\$3,707,532
	1927	92	134	547	813	13	500	366,197	1,220,647	9,133,059	9,110,740	22,319	12,351,503	3,218,444
	1919	124	167	1,155	680		6	674	698,643	2,837,811	19,363,004	19,331,643	31,361	30,051,460
New York.....	1929	71	76	288	280		280	256,786	644,710	6,238,268	6,226,899	11,369	9,127,375	2,889,107
	1927	64	84	344	351	6	345	228,259	904,721	7,452,686	7,440,056	12,630	9,844,004	2,891,318
	1919	71	118	823	477		477	606,059	2,444,465	17,776,612	17,756,377	20,235	27,032,138	9,256,526
Other States.....	1929	29	47	218	194	5	189	140,091	356,996	1,996,621	1,987,019	9,602	2,815,040	818,425
	1927	28	50	203	162	7	155	137,938	315,926	1,680,373	1,670,684	9,689	2,507,499	827,126
	1919	53	49	332	263	6	197	92,584	393,346	1,586,302	1,575,266	11,126	3,019,322	1,432,980

¹ Not including proprietors and firm members, as follows: For 1929, 112; 1927, 101; 1919, 147. The total numbers of persons engaged—proprietors and firm members, salaried officers and employees, and wage earners—as reported for the industry, are as follows: For 1929, 741; 1927, 782; 1919, 1,469.

² The figures for 1929 refer to sales (shipments or deliveries) by manufacturers; those for earlier years represent production. See GENERAL EXPLANATIONS—Value of Products.

³ Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

⁴ California, 11 establishments; Colorado, 1; Illinois, 3; Massachusetts, 2; New Jersey, 5; Ohio, 2; Pennsylvania, 4; Rhode Island, 1.

⁵ California, 9 establishments; Colorado, 2; Connecticut, 1; Illinois, 3; Massachusetts, 4; New Jersey, 4; Pennsylvania, 3; Rhode Island, 1; Washington, 1.

⁶ California, 13 establishments; Colorado, 1; Connecticut, 2; Illinois, 4; Maine, 2; Massachusetts, 6; Minnesota, 1; Missouri, 1; Montana, 2; New Jersey, 7; Oregon, 4; Pennsylvania, 4; Rhode Island, 2; Texas, 1; Washington, 1; Wyoming, 2.

TABLE 3.—PRIME MOVERS, MOTORS, AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY—NUMBER AND RATED CAPACITY OF PRIME MOVERS AND ELECTRIC MOTORS, 1929, 1927, 1925, 1919, AND 1914; QUANTITY OF ELECTRIC ENERGY PURCHASED, 1929

TYPE	1929		1927		1925		1919		1914		PER CENT DISTRIBUTION OF RATED HORSEPOWER CAPACITY	
	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	1929	1919
Prime movers and electric motors driven by purchased energy, aggregate.....	663	Horsepower 474	605	Horsepower 413	612	Horsepower 515	618	Horsepower 680	318	Horsepower 534	100.0	100.0
Prime movers, total.....	1	5	2	13	8	3	2	6	2	9	1.1	0.9
Steam engines.....									1	6		
Internal-combustion engines.....	1	5	2	13			2	6	1	3	1.1	0.9
Water wheels and water turbines.....					8	3						
Electric motors driven by purchased energy.....	662	469 Kilowatt-hours	603	500	604	512	616	674	316	525	98.9	99.1
Electric energy purchased ¹		305,212		(²)		(²)		(³)		(³)		

¹ This item covers the consumption of purchased electric energy for all purposes—power, heat, light, etc.

² Data incomplete.

³ Not called for on schedule.

TABLE 4.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1929, 1925, 1919, 1914, AND 1909, AND FOR NEW YORK, 1929

[This table presents statistics for the only State which can be given without disclosing data for individual establishments. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures]

STATE	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum	
		January	February	March	April	May	June	July	August	September	October	November	December		
United States:	1929	506	578	560	575	511	508	484	531	565	477	422	447	410	71.2
	1925	589	647	683	653	643	601	586	513	507	506	557	522	620	74.1
	1919	1,155	1,031	1,067	1,133	1,125	1,142	1,182	1,180	1,175	1,195	1,212	1,206	1,212	85.1
	1914	584	784	698	747	741	707	730	677	486	476	397	339	256	34.0
	1909	627	591	599	593	621	602	599	609	650	652	675	675	671	87.0
New York.....	288	324	330	349	283	279	256	283	319	289	247	267	229	65.6	

MATTRESSES AND BED SPRINGS

Description of the industry.—This industry embraces establishments engaged primarily in the manufacture of mattresses and pads filled with hair, cotton, felt, moss, or similar materials; wire springs for use on beds, couches, and cots; and spring cushions.

Comparison with earlier years.—The statistics for 1925 and earlier years shown in Tables 1 and 2 are not strictly comparable with those for 1927 and 1929 because of the exclusion for 1927 and 1929 and the inclusion for earlier years of data for establishments

engaged primarily in renovating mattresses. For 1927, 103 such establishments reported mattresses and bed springs manufactured to the value of \$203,421 and receipts of \$923,636 for renovating.

Detailed statistics of products (Table 3).—A special schedule, calling for detailed data on the several classes of products, was used for this industry for the first time at the census for 1927. No detailed product statistics are, therefore, available for earlier years.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1929

[Data for establishments with products under \$5,000 in value included for 1919 and prior years but not for 1921 and subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²	Horsepower
1929	951	17,187	\$22,683,835	\$61,527,026	\$123,279,717	\$61,752,691	50,554
1927	838	13,481	16,886,711	52,182,075	98,834,558	46,652,483	32,937
1925	1,018	14,403	17,429,710	62,489,286	110,716,896	48,227,610	32,840
1923	1,015	14,103	16,472,666	61,476,696	107,561,684	46,084,985	30,324
1921	889	11,748	13,546,457	42,056,162	74,623,976	32,567,814	(³)
1919	1,041	12,637	12,805,351	49,208,560	83,952,609	34,744,049	23,387
1914	1,000	11,747	6,723,372	22,399,153	38,716,764	16,317,611	20,604
1909	930	11,322	5,771,334	20,482,508	35,783,154	15,300,646	17,538
1904	716	10,427	4,815,907	15,325,931	27,755,268	12,429,367	12,643
1899	589	7,640	3,102,013	10,227,095	17,955,578	7,728,462	7,950
PER CENT OF INCREASE OR DECREASE (—)							
1927-1929	13.5	27.5	33.7	17.9	24.7	32.4	53.5
1925-1927	-17.7	-6.4	-3.1	-16.5	-10.7	-3.3	0.3
1923-1925	0.3	2.1	5.8	1.6	3.0	4.6	8.3
1921-1923	14.2	20.0	21.6	46.2	44.1	41.5	-----
1919-1921	-14.6	-7.0	5.8	-14.5	-11.1	-6.3	-----
1919-1929	-8.6	36.0	76.4	25.0	46.8	77.7	116.2
1909-1919	11.9	11.6	121.9	140.2	134.6	127.1	33.4
1899-1909	57.9	48.0	86.1	100.3	99.3	98.0	119.8

¹ For 1929, manufacturers' sales (shipments or deliveries); for earlier years, production. See GENERAL EXPLANATIONS—Value of Products.

² Value of products less cost of materials, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

³ Not called for on schedule.

CENSUS OF MANUFACTURES: 1929

TABLE 2.—GENERAL STATISTICS, BY STATES: 1929, 1927, AND 1919

[This table presents statistics separately for each State for which figures can be given without disclosing data for individual establishments. Certain of the "Other States," however, reported larger values of products than some of the States shown separately. Data for establishments with products under \$5,000 in value are included for 1919 but not for subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

STATE	Census year	Number of establishments	Salaried officers and employees ¹	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products ²	Value added by manufacture ³
					Total	Prime movers	Motors run by purchased energy			Total	Materials	Fuel and purchased energy		
United States	1929	951	2,669	17,187	50,554	18,272	32,282	\$7,013,752	\$22,583,835	\$61,527,020	\$60,357,115	\$1,169,911	\$123,279,717	\$61,752,691
	1927	838	2,725	13,481	32,937	3,655	29,282	7,003,802	16,886,711	52,182,075	51,133,130	1,048,945	98,834,558	40,052,483
	1919	1,041	2,024	12,637	23,387	5,229	18,158	5,558,348	12,805,351	49,208,560	48,600,046	618,514	83,952,609	34,744,040
Alabama	1929	15	48	132	457	-----	457	123,574	111,777	417,059	407,411	9,648	706,484	349,425
	1927	10	42	166	401	-----	401	132,710	145,212	471,577	461,525	10,052	941,509	469,932
	1919	14	31	127	269	-----	269	88,826	108,602	517,418	511,866	5,552	858,684	341,266
Arizona	1929	3	7	24	62	-----	62	15,210	30,958	97,075	95,414	1,061	186,512	89,487
Arkansas	1929	11	30	148	333	-----	333	63,275	109,244	535,280	526,171	9,109	945,376	410,006
	1927	7	22	130	364	-----	364	36,981	121,780	439,327	432,060	7,267	844,318	404,991
	1919	10	46	172	406	53	353	80,932	147,291	619,071	612,536	6,535	1,004,410	385,848
California	1929	65	166	1,333	3,361	-----	3,361	387,415	1,733,540	4,789,735	4,729,244	60,491	9,600,015	4,816,280
	1927	48	168	710	1,527	50	1,477	424,534	966,705	2,929,488	2,897,511	31,977	5,375,019	2,440,131
	1919	49	139	609	1,170	-----	1,170	282,992	604,653	2,485,753	2,467,067	18,148	4,156,514	1,670,761
Colorado	1929	5	19	137	684	300	384	50,085	159,928	388,886	374,907	13,979	733,147	344,201
	1927	4	12	154	578	200	378	27,425	175,034	501,661	483,635	13,026	878,109	370,448
	1919	7	44	189	369	170	199	49,157	147,552	709,142	696,029	13,113	982,845	273,703
Connecticut	1929	24	25	115	313	-----	313	67,995	163,145	537,367	526,323	11,044	973,000	435,633
	1927	22	24	107	363	-----	363	49,210	155,744	595,823	584,413	11,410	1,017,863	422,040
	1919	23	15	114	204	-----	204	26,788	140,613	506,243	499,152	7,001	920,508	423,265
Delaware	1929	4	2	18	50	-----	50	5,580	24,206	91,573	89,521	2,052	151,839	60,266
District of Columbia	1929	5	7	81	176	-----	176	15,546	83,981	208,438	203,147	5,291	415,892	207,454
	1927	5	11	65	179	-----	179	28,001	69,141	235,644	229,269	6,375	435,392	199,748
	1919	5	5	46	68	-----	68	6,841	52,612	163,828	161,070	2,758	306,412	145,694
Florida	1929	16	19	77	405	-----	405	33,539	88,909	227,639	223,349	4,290	456,537	228,958
	1927	8	26	67	289	-----	289	45,865	81,316	261,211	256,500	4,711	479,006	217,795
	1919	11	8	85	140	12	128	14,029	69,897	304,110	301,732	2,378	479,992	175,882
Georgia	1929	21	96	663	1,810	-----	1,810	275,756	67,183	2,375,043	2,342,370	32,673	4,599,630	2,224,887
	1927	14	98	593	1,009	-----	1,009	256,791	595,109	2,190,371	2,153,663	36,708	4,320,005	2,120,634
	1919	21	70	422	489	41	448	282,679	393,523	1,555,554	1,530,178	16,376	2,742,234	1,180,740
Illinois	1929	54	159	1,487	2,953	350	2,603	537,198	1,882,332	5,591,421	5,493,506	97,915	10,329,810	4,738,389
	1927	51	306	1,523	3,374	350	3,024	944,106	2,009,745	5,041,243	5,535,563	105,680	11,560,429	5,919,186
	1919	72	266	1,571	2,008	603	1,465	579,791	1,887,568	4,846,648	4,773,933	72,715	8,724,833	3,878,185
Indiana	1929	16	54	386	991	90	901	168,381	438,488	1,335,469	1,303,981	31,488	2,363,590	1,028,121
	1927	19	69	420	806	125	684	169,126	420,722	1,380,182	1,351,252	28,930	2,704,983	1,324,801
	1919	20	82	493	905	311	594	206,944	383,642	1,446,204	1,424,282	21,922	2,487,263	1,041,059
Iowa	1929	11	18	131	521	-----	521	64,643	147,163	489,816	474,218	15,598	877,909	388,093
	1927	6	20	47	269	-----	269	41,988	55,177	154,447	149,441	5,006	342,752	188,305
	1919	15	70	239	670	94	576	102,947	272,359	1,122,711	1,107,822	14,880	1,991,564	868,843
Kansas	1929	12	20	108	339	-----	339	42,704	131,436	386,381	378,498	7,883	683,022	296,641
	1927	9	29	97	278	-----	278	72,844	121,945	395,614	372,694	22,920	704,342	308,728
	1919	12	30	196	708	125	583	54,551	194,893	603,800	603,800	10,490	1,068,982	464,593
Kentucky	1929	8	23	133	184	4	180	46,265	109,428	401,356	394,031	7,325	709,855	308,499
	1927	8	43	286	793	-----	793	110,461	276,847	1,029,833	1,011,102	18,731	1,974,570	944,737
	1919	9	16	88	116	-----	116	20,978	66,392	184,172	180,868	3,314	393,160	208,988
Louisiana	1929	14	25	131	504	-----	504	47,923	93,399	294,268	286,044	8,224	578,286	284,018
	1927	9	22	88	291	-----	291	46,227	78,934	313,539	307,708	5,831	527,733	214,194
	1919	13	50	293	433	-----	433	150,133	187,333	876,298	866,825	9,473	1,619,085	742,787
Maine	1929	4	12	67	292	-----	292	60,903	64,871	238,633	234,151	4,482	423,165	184,532
	1927	4	10	63	242	-----	242	19,826	66,799	208,298	205,257	3,041	402,784	194,486
	1919	6	6	52	157	-----	157	20,734	31,127	139,398	137,264	2,144	225,900	86,502
Maryland	1929	13	62	360	673	150	533	160,129	381,393	1,177,406	1,155,657	21,749	2,558,781	1,381,375
	1927	15	84	293	675	150	525	215,131	339,699	917,131	897,829	19,302	2,277,902	1,360,771
	1919	20	54	243	547	275	272	145,738	221,918	806,598	794,867	11,741	1,573,934	797,336
Massachusetts	1929	57	140	671	1,278	-----	1,278	288,179	768,361	2,457,653	2,410,344	47,309	4,644,665	2,187,012
	1927	61	188	816	1,756	50	1,706	460,148	638,143	2,961,009	2,899,632	61,377	5,553,139	2,592,130
	1919	52	130	583	903	125	778	267,682	637,417	2,426,106	2,394,468	31,648	4,016,343	1,589,237
Michigan	1929	22	55	367	948	-----	948	172,269	544,423	1,514,849	1,481,442	33,407	3,087,600	1,572,751
	1927	18	41	287	733	-----	733	143,908	360,061	1,174,483	1,150,681	23,802	2,196,642	1,021,159
	1919	16	36	171	487	-----	487	64,429	195,676	784,973	773,410	11,663	1,869,403	584,430
Minnesota	1929	11	87	454	1,279	407	872	191,868	480,868	1,864,029	1,827,392	36,637	2,987,046	1,123,017
	1927	11	84	308	678	407	571	151,841	361,746	1,347,421	1,249,839	97,882	2,281,412	933,991
	1919	9	127	459	1,654	375	1,279	340,340	474,439	2,402,263	2,388,901	33,362	3,871,893	1,469,630
Mississippi	1929	5	8	25	122	-----	122	17,554	25,952	90,807	88,819	1,988	164,609	73,702
	1927	5	9	46	100	20	140	10,653	39,267	130,885	127,876	2,700	228,292	95,707
	1919	7	9	39	120	-----	120	11,595	27,801	129,661	127,913	1,748	207,939	78,278

See footnotes at end of table.

MATTRESSES AND BED SPRINGS

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TABLE 2.—GENERAL STATISTICS, BY STATES: 1929, 1927, AND 1919—Continued

[See note at head of this table]

STATE	Census year	Number of establishments	Salaried officers and employees ¹	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products ²	Value added by manufacture ³
					Total	Prime movers	Motors run by purchased energy			Total	Materials	Fuel and purchased energy		
Missouri	1929	25	59	304	863	10	853	\$138,647	\$336,789	\$1,250,932	\$1,228,033	\$22,899	\$2,134,558	\$883,626
	1927	24	44	282	775		775	97,885	321,840	990,250	881,306	18,944	1,739,671	839,421
	1919	28	93	348	769	265	504	152,651	376,765	1,400,964	1,379,811	21,153	2,406,694	1,066,930
Nebraska	1929	7	6	39	219		219	8,758	45,588	136,508	132,161	4,407	289,902	153,334
	1927	4	5	27	160		160	6,001	32,159	117,145	113,791	3,354	234,935	117,760
	1919	7	14	93	181	3	178	27,991	90,885	395,743	391,372	4,371	660,621	264,878
New Mexico	1929	3	1	5	49	30	19	1,600	4,550	14,092	13,740	352	29,793	15,701
New York	1929	193	421	1,032	3,366	449	2,917	1,129,069	3,040,014	9,059,726	8,942,688	117,038	17,450,981	8,391,255
	1927	155	410	1,918	3,246	509	2,737	1,038,193	2,973,172	9,319,817	9,167,976	151,841	17,030,962	7,711,175
	1919	224	395	1,636	2,170	491	1,679	803,500	2,146,860	7,897,456	7,815,134	82,322	13,472,613	5,575,057
North Carolina	1929	17	41	184	606		606	82,598	151,272	583,588	571,666	11,722	1,016,169	432,581
	1927	17	41	252	631		631	112,246	221,903	824,081	807,411	16,670	1,454,877	630,796
	1919	17	27	159	333	9	224	61,784	128,679	773,074	765,469	7,614	1,189,272	416,193
Ohio	1929	42	171	701	3,020	1,650	1,370	544,949	833,483	2,667,273	2,624,544	42,729	4,865,673	2,198,300
	1927	40	137	702	1,651	55	1,596	454,585	909,448	2,769,263	2,715,137	54,126	3,773,141	3,003,578
	1919	40	137	553	1,064	182	872	291,888	564,728	2,595,020	2,539,285	55,735	4,199,164	1,604,144
Oklahoma	1929	14	10	136	404		404	50,014	176,655	578,983	558,499	10,484	1,007,221	428,238
	1927	14	20	143	370	3	367	42,883	198,213	626,520	613,959	12,561	1,034,213	407,693
	1919	13	22	99	184	48	136	41,462	99,822	378,040	373,070	4,970	700,368	322,328
Oregon	1929	8	27	113	529	6	523	70,916	134,924	379,321	372,488	6,833	723,987	344,666
	1927	8	27	160	372	4	368	68,175	162,524	420,408	414,035	6,373	872,793	452,355
	1919	6	15	82	165		155	27,877	89,737	329,048	325,496	3,552	534,140	205,062
Pennsylvania	1929	60	192	1,004	2,554	0	2,545	471,608	1,229,333	3,534,821	3,459,550	75,271	6,444,480	2,909,659
	1927	66	182	1,029	2,466	34	2,432	459,473	1,369,316	3,520,355	3,452,943	67,412	6,667,532	3,147,177
	1919	73	185	1,083	1,595	707	888	326,578	1,077,180	3,922,890	3,874,325	48,565	6,343,047	2,430,157
Rhode Island	1929	6	15	72	296		296	41,362	86,719	293,961	286,440	7,521	498,139	204,178
	1927	5	12	70	1,112		1,112	37,612	78,488	241,347	237,732	3,615	438,614	197,267
	1919	10	13	68	101		101	14,195	73,398	250,024	248,035	1,989	397,127	147,103
South Carolina	1929	7	10	32	211	40	171	14,945	20,636	85,251	82,694	2,557	151,222	65,971
	1927	8	10	46	197	45	152	13,030	34,367	116,326	113,791	2,535	198,212	81,896
	1919	8	5	33	78	45	33	6,618	20,352	107,462	105,904	1,558	162,443	54,981
Tennessee	1929	13	73	438	709		709	216,416	356,622	1,337,375	1,317,000	20,375	2,400,158	1,062,783
	1927	13	79	461	829		829	279,273	395,189	1,581,359	1,555,440	28,919	2,630,034	1,048,675
	1919	18	99	410	940	160	790	281,731	316,960	1,538,675	1,518,690	19,985	2,808,659	1,269,984
Texas	1929	72	62	443	1,516	37	1,479	132,504	422,001	1,405,434	1,375,459	29,975	2,586,602	1,181,158
	1927	62	70	356	1,233	36	1,197	138,159	331,195	1,219,417	1,195,754	23,663	2,318,825	1,096,267
	1919	86	110	431	1,029	88	941	189,437	332,179	1,756,511	1,732,486	24,025	2,910,316	1,163,895
Utah	1929	8	12	69	284	60	194	28,541	65,054	167,084	161,990	5,094	304,494	137,410
	1927	6	9	45	250	130	120	23,417	40,797	128,161	124,426	3,735	238,989	110,828
	1919	8	14	80	368	115	253	31,336	78,414	257,783	252,939	4,844	445,710	187,927
Virginia	1929	14	32	165	387		387	84,707	113,588	550,590	543,099	7,491	991,982	441,392
	1927	16	43	204	679		679	75,711	216,603	780,253	766,166	14,087	1,511,794	731,541
	1919	20	34	162	317		317	60,365	134,066	511,489	506,150	5,339	867,012	355,523
Washington	1929	0	11	90	584		584	28,104	124,386	366,586	352,041	7,545	689,033	322,447
	1927	11	18	120	606		606	46,918	142,044	390,654	382,867	7,787	726,933	336,279
	1919	12	26	226	726		726	44,785	277,418	731,107	721,171	9,936	1,365,252	634,145
West Virginia	1929	4	10	42	207		207	27,550	55,014	191,051	186,360	4,691	360,260	169,269
	1927	7	19	64	244	50	194	46,311	80,410	299,450	294,559	4,891	509,237	269,787
	1919	7	20	106	207	195	72	47,376	112,302	700,301	697,692	2,609	1,111,350	411,049
Other States (N. H., 3 est.; N. J., 28; N. Dak., 1; Vt., 1; Wis., 20)---	1929	53	425	4,370	16,989	14,650	2,339	1,105,273	7,131,192	13,414,207	13,085,523	328,684	33,092,443	19,678,236
States not shown separately	1927	58	291	1,336	3,111	1,437	1,674	676,424	1,990,973	5,648,382	5,533,387	114,995	10,349,995	4,701,613
	1919	73	170	907	1,479	747	732	335,168	880,358	3,022,433	2,979,455	42,978	5,365,764	2,343,331

¹ Not including proprietors and firm members. The total numbers of persons engaged and the numbers of proprietors and firm members, as reported for this industry, are as follows: For 1929, total, 20,544; proprietors and firm members, 688. For 1927, total, 16,821; proprietors and firm members, 615. For 1919, total, 16,244; proprietors and firm members, 983.

² For 1929, manufacturers' sales (shipments or deliveries) for earlier years, production. See GENERAL EXPLANATIONS—Value of Products.

³ Value of products less cost of materials, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

⁴ Data for purchased power other than electric (power transmitted into the plant by belt or shaft) are included in the State items for 1919 but not in the United States totals.

⁵ Arizona, 2 establishments; Delaware, 3; Nevada, 1; New Hampshire, 2; New Jersey, 26; North Dakota, 1; South Dakota, 1; Vermont, 1; Wisconsin, 21.

⁶ Delaware, 3 establishments; Idaho, 1; Montana, 2; New Hampshire, 2; New Jersey, 35; New Mexico, 1; North Dakota, 1; South Dakota, 1; Vermont, 2; Wisconsin, 25.

CENSUS OF MANUFACTURES: 1929

TABLE 3.—PRODUCTS, BY KIND AND VALUE, FOR THE UNITED STATES: 1929 AND 1927

[The figures for 1929 refer to sales (shipments or deliveries) by manufacturers; those for 1927 represent production. See GENERAL EXPLANATIONS—Value of Products]

KIND	VALUE		KIND	VALUE	
	1929	1927		1929	1927
1 Mattresses and bed-springs industry, all products, total value.....	\$123,279,717	\$98,834,558	Mattresses, bed springs, etc.—Continued. Mattresses and pads, total.....	\$75,197,544	\$65,791,355
2. Mattresses, bed springs, etc.....	97,796,423	82,937,678	Inner-spring construction.....	33,905,070	(1)
3. Other products.....	23,829,855	14,030,505	Other.....	37,778,306	(1)
4. Amount received for custom and contract work.....	1,653,439	1,866,375	Not specified.....	3,518,168	
5. Mattresses, bed springs, etc., made as secondary products in other industries.....	9,807,460	15,274,480	Bed springs, total.....	31,680,765	29,120,285
Mattresses, bed springs, etc., all industries, total value (sum of 2 and 5).....	107,603,883	98,212,158	Box.....	6,280,808	4,542,485
			Other and not specified.....	25,399,857	24,586,800
			Mattresses and bed springs not separately reported.....	725,574	3,291,518

¹ Not reported separately

TABLE 4.—PRIME MOVERS, MOTORS, GENERATORS, AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY—NUMBER AND RATED CAPACITY OF PRIME MOVERS AND ELECTRIC MOTORS, 1929, 1927, 1925, 1919, AND 1914, AND OF GENERATORS, 1929, 1927, AND 1925; QUANTITY OF ELECTRIC ENERGY PURCHASED, 1929

TYPE	1929		1927		1925		1919		1914		PER CENT DISTRIBUTION OF RATED HORSEPOWER CAPACITY	
	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	1929	1919
		Horse-power		Horse-power		Horse-power		Horse-power		Horse-power		
Prime movers and electric motors driven by purchased energy, aggregate.....	7,163	50,554	6,128	32,937	6,162	32,840	3,652	23,387	2,596	20,604	100.0	100.0
Prime movers, total.....	43	18,272	44	3,655	61	3,946	111	5,229	164	7,148	36.1	22.4
Steam, total.....	35	17,993	27	3,203	30	3,284	41	3,847	71	5,200	35.6	16.5
Engines.....	26	3,893	27	3,203	29	3,249	39	3,597	(1)	(1)	7.7	15.4
Turbines.....	9	14,100			1	35	2	250	(1)	(1)	27.9	1.1
Internal-combustion engines.....	5	99	14	277	22	422	60	1,001	39	1,760	0.2	4.3
Water wheels and water turbines.....	3	180	3	175	9	240	10	381	4	170	0.3	1.6
Electric motors driven by purchased energy.....	7,120	32,282	6,084	29,282	6,101	28,894	3,541	18,158	2,432	13,456	63.9	77.6
Electric motors, total.....	8,633	45,026	6,625	32,097	6,199	29,355	3,703	19,314	2,547	14,505	100.0	100.0
Driven by purchased energy.....	7,120	32,282	6,084	29,282	6,101	28,894	3,541	18,158	2,432	13,456	71.7	94.0
Driven by energy generated in establishments reporting.....	1,513	12,744	541	2,815	98	461	162	1,156	115	1,049	28.3	6.0
Electric generators.....	15	Kilowatts 12,101	9	Kilowatts 1,365	10	Kilowatts 522	(2)	(2)	(2)	(2)		
Electric energy purchased ¹		Kilowatt-hours 21,514,213		(4)		(4)		(2)		(2)		

¹ Not called for separately on schedule.² Not called for on schedule.³ This item covers the consumption of purchased electric energy for all purposes—power, heat, light, etc.⁴ Data incomplete.

MATTRESSES AND BED SPRINGS

1319

TABLE 5.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1929, 1925, 1919, 1914, AND 1909, AND BY STATES, 1929

(This table presents statistics for only those States for which figures can be given without disclosing data for individual establishments. The sum of the State items in any column is not, therefore, equal to the United States total at the head of the column. The month of maximum employment is indicated by bold-faced figures and that of the minimum by *italic* figures)

STATE	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum
		January	February	March	April	May	June	July	August	September	October	November	December	
<i>United States</i>														
1929.....	17,187	15,792	16,086	16,413	16,651	16,903	17,229	17,171	17,872	19,189	19,584	17,192	16,163	80.6
1925.....	14,403	13,285	13,378	13,736	13,878	13,986	14,164	14,109	14,534	15,468	16,025	15,559	14,810	82.5
1919.....	12,037	10,767	11,144	11,447	11,809	12,241	12,518	13,115	13,412	13,530	13,957	13,872	13,834	77.1
1914.....	11,747	11,560	11,045	11,869	12,045	12,063	12,052	11,681	11,587	11,856	11,906	11,527	11,193	92.9
1909.....	11,322	10,287	10,407	10,860	11,037	11,261	11,309	11,188	11,344	11,975	12,396	12,161	11,717	82.6
<i>States, 1929</i>														
Alabama.....	132	119	114	117	118	<i>109</i>	126	132	141	156	180	150	126	60.6
Arizona.....	24	22	22	22	18	18	18	20	22	21	35	37	24	47.4
Arkansas.....	148	161	145	153	148	131	159	130	159	163	164	156	144	78.7
California.....	1,333	1,284	1,331	1,361	1,334	1,303	1,321	1,331	1,360	1,362	1,470	1,325	1,009	82.2
Colorado.....	137	130	129	123	138	147	147	146	149	144	135	130	125	82.6
Connecticut.....	115	<i>109</i>	110	111	116	118	118	118	118	116	115	113	110	92.4
Delaware.....	18	<i>14</i>	14	15	18	22	21	18	17	19	22	18	15	63.6
District of Columbia.....	81	78	78	78	80	82	83	83	83	83	84	79	80	92.9
Florida.....	77	85	82	81	70	69	69	70	68	73	83	85	88	76.4
Georgia.....	663	<i>601</i>	606	618	647	644	644	636	645	703	761	725	719	79.0
Illinois.....	1,487	1,429	1,394	1,391	1,447	1,516	1,487	1,498	1,603	1,648	1,662	1,491	1,371	82.8
Indiana.....	386	<i>312</i>	345	376	379	409	422	403	414	438	430	387	322	71.2
Iowa.....	131	<i>121</i>	125	128	133	133	134	139	135	144	134	130	122	84.0
Kansas.....	108	<i>103</i>	107	104	104	109	110	113	111	113	114	108	104	90.4
Kentucky.....	133	123	120	133	132	133	124	110	115	145	174	163	121	63.2
Louisiana.....	131	<i>112</i>	133	132	116	134	128	136	136	136	139	137	136	80.6
Maine.....	67	50	<i>48</i>	62	69	84	82	89	73	65	63	57	52	52.2
Maryland.....	360	593	340	340	348	350	354	376	386	385	392	370	538	86.2
Massachusetts.....	671	616	597	633	651	668	681	679	690	719	728	715	678	82.0
Michigan.....	367	303	318	355	390	437	445	410	380	383	372	307	303	68.1
Minnesota.....	464	396	427	444	466	465	478	480	486	498	505	435	379	75.0
Mississippi.....	25	25	27	26	23	23	23	22	22	24	29	29	29	75.9
Missouri.....	304	307	311	299	302	298	291	293	297	316	316	311	309	92.1
Nebraska.....	39	39	41	39	39	38	38	39	41	41	39	39	39	92.7
New Mexico.....	5	5	5	5	5	5	5	5	5	5	5	5	5	
New York.....	1,932	1,841	1,852	1,870	1,952	1,963	1,965	1,949	1,983	1,996	2,015	1,920	1,877	91.4
North Carolina.....	184	134	134	133	136	213	210	207	205	208	210	211	208	62.4
Ohio.....	701	594	607	621	634	666	801	772	765	807	817	679	594	69.3
Oklahoma.....	136	<i>125</i>	130	139	134	136	142	135	140	139	151	141	135	82.8
Oregon.....	113	112	101	121	119	116	111	114	124	122	117	100	67	78.2
Pennsylvania.....	1,004	954	981	989	1,052	1,064	1,045	1,038	1,006	1,018	980	987	927	87.1
Rhode Island.....	72	72	72	72	72	71	71	72	73	73	73	72	71	97.3
South Carolina.....	32	28	30	34	31	33	30	29	34	36	33	34	32	77.8
Tennessee.....	438	418	426	421	460	397	427	412	457	489	489	443	418	81.2
Texas.....	443	445	441	437	442	440	436	435	428	456	462	462	438	92.0
Utah.....	69	65	<i>64</i>	65	68	69	75	78	72	74	73	69	67	82.1
Virginia.....	165	134	<i>131</i>	144	171	170	169	171	173	189	189	173	168	69.3
Washington.....	90	87	88	80	86	87	89	89	91	96	99	94	80	80.8
West Virginia.....	42	37	37	39	42	44	47	43	43	47	46	38	36	76.6

MODELS AND PATTERNS, NOT INCLUDING PAPER PATTERNS

Description of the industry.—The establishments classified in this industry are engaged primarily in the manufacture of patterns and models for use in making matrices or molds for casting metal or for making brick, glassware, etc.; and of hat blocks, wax figures, dress and show forms, and similar commodities.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1929

[Data for establishments with products under \$5,000 in value included for 1919 and prior years but not for 1921 and subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²	Horsepower
1929	804	6,778	\$13,233,622	\$5,314,359	\$30,621,074	\$25,306,715	12,378
1927	693	5,584	10,544,604	4,669,266	23,494,992	18,835,726	11,465
1925	689	5,292	9,419,777	4,927,230	22,484,585	17,557,355	10,473
1923	697	5,813	9,765,810	11,187,572	30,184,700	18,977,137	12,072
1921	656	3,936	6,026,634	4,042,100	15,742,112	11,700,012	(³)
1919	928	6,949	10,318,104	6,395,834	25,300,389	18,904,555	13,760
1914	762	4,274	3,108,061	2,045,327	8,604,695	6,550,368	5,801
1909	709	4,171	2,929,252	2,876,230	8,898,166	5,991,930	4,642
1904	547	2,780	1,788,184	922,081	4,545,004	3,622,923	2,428
1899	530	2,607	1,564,945	824,852	3,834,498	3,009,646	3,021
PER CENT OF INCREASE OR DECREASE (—)							
1927-1929	16.0	21.4	25.5	14.1	30.3	34.4	9.0
1925-1927	0.6	6.1	11.9	-5.4	4.5	7.3	9.5
1923-1925	-1.1	-9.5	-3.5	-56.0	-25.5	-7.5	-13.2
1921-1923	6.3	47.7	62.0	176.8	91.0	62.2	-----
1919-1921	-29.3	-43.4	-41.6	-36.8	-37.8	-38.1	-----
1919-1929	-13.4	-2.5	28.3	-16.9	21.0	33.9	-10.0
1919-1919	30.9	66.6	252.2	122.4	185.3	215.5	196.2
1899-1909	33.8	60.0	87.2	245.7	131.3	99.1	63.7

¹ For 1929, manufacturers' sales (shipments or deliveries); for earlier years, production. See GENERAL EXPLANATIONS—Value of Products.

² Includes value of miscellaneous products, normally belonging to other industries, made as secondary products by establishments engaged primarily in the manufacture of models and patterns, as follows: 1929, \$220,670; 1927, \$424,454; 1925, \$433,368; corresponding amounts for earlier years not available. Does not include following values of models and patterns (other than paper patterns) made as secondary products by establishments classified in other industries: 1929, \$8,610,354; 1927, \$762,165; 1925, \$316,800; 1923, \$1,247,026; 1921, \$432,206; 1919, \$1,105,565; corresponding amounts for earlier years not available.

³ Value of products less cost of materials, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

⁴ Not called for on schedule.

TABLE 2.—GENERAL STATISTICS, BY STATES: 1929, 1927, AND 1919

[This table presents statistics separately for each State for which figures can be given without disclosing data for individual establishments, and for the remaining States in groups. Data for establishments with products under \$5,000 in value are included for 1919 but not for subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

STATE	Census year	Number of establishments	Salaried officers and employes ¹	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products ²	Value added by manufacture ³	
					Total	Prime movers	Motors run by purchased energy			Total	Materials	Fuel and purchased energy			
United States	1929	804	1,022	6,778	12,378	249	12,129	\$3,212,408	\$13,233,622	\$5,314,359	\$4,943,310	\$371,049	\$30,621,074	\$25,306,715	
	1927	693	791	5,584	11,465	1,373	10,092	2,329,654	10,544,604	4,669,266	4,333,173	326,093	23,494,992	18,835,726	
	1919	928	833	6,949	*13,750	5,696	*8,054	1,908,116	10,318,104	6,395,834	6,106,967	288,867	25,300,389	18,904,555	
Individual States:															
	California	1929	52	38	278	801	-----	801	76,850	532,003	247,437	235,830	11,607	1,253,933	1,006,499
	1927	41	28	210	494	-----	494	55,462	389,080	161,605	151,350	10,255	845,160	683,555	
1919	45	14	148	333	-----	333	22,340	229,315	116,024	109,299	6,725	525,466	409,442		
Colorado	1929	7	-----	12	43	-----	43	-----	21,885	11,804	10,764	1,040	66,941	55,187	
1927	6	1	14	51	-----	51	3,386	22,854	12,269	10,948	1,311	61,805	49,546		
1919	8	-----	17	44	-----	44	-----	28,126	13,237	12,297	940	63,097	40,860		
Connecticut	1929	25	26	184	357	-----	357	64,113	344,223	101,884	90,656	11,228	690,308	588,424	
1927	21	16	132	236	-----	236	33,431	243,768	80,658	72,421	8,237	500,835	420,177		
1919	32	13	152	220	-----	220	18,479	227,217	79,481	71,032	8,449	463,301	373,820		
Illinois	1929	86	90	699	1,167	-----	1,167	274,085	1,169,428	465,200	433,348	31,855	2,700,587	2,235,381	
1927	82	56	532	1,028	-----	1,028	152,818	1,080,074	413,770	381,336	32,434	2,226,018	1,812,848		
1919	88	61	490	626	6	620	113,679	754,334	367,654	347,536	20,118	1,636,787	1,260,133		

See footnotes at end of table.

MODELS AND PATTERNS, NOT INCLUDING PAPER PATTERNS 1321

TABLE 2.—GENERAL STATISTICS, BY STATES: 1929, 1927, AND 1919—Continued

(See note at head of this table)

STATE	Census year	Number of establishments	Salaried officers and employees ¹	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products ²	Value added by manufacture
					Total	Prime movers	Motors run by purchased energy			Total	Materials	Fuel and purchased energy		
Individual States—Continued.														
Indiana	1929	25	30	160	427	—	427	\$70,894	\$290,272	\$115,605	\$104,309	\$11,296	\$668,597	\$552,992
	1927	16	15	113	269	—	269	41,463	197,824	70,966	64,081	6,885	412,103	341,137
	1919	34	26	231	374	33	341	48,005	385,912	167,454	160,302	7,152	794,559	617,105
Iowa	1929	4	2	26	45	—	45	3,040	48,710	14,307	12,892	1,415	96,538	82,231
	1927	7	3	25	66	—	66	4,488	36,918	13,604	12,306	1,298	79,963	66,379
	1919	8	1	17	30	—	30	620	28,679	15,752	14,925	827	63,288	47,536
Kentucky	1929	3	—	7	16	—	16	—	12,035	6,377	6,377	—	30,780	24,403
	1927	3	2	5	27	—	27	7,000	7,756	12,227	11,794	433	35,849	23,422
Maryland	1929	10	—	35	99	—	99	—	54,456	28,031	27,215	816	130,147	102,116
	1927	8	—	28	84	6	78	—	40,697	12,469	10,701	1,768	90,292	77,823
	1919	9	2	38	64	12	52	3,515	61,993	21,239	18,935	2,304	116,290	95,051
Massachusetts	1929	66	112	550	727	—	727	332,828	994,110	345,461	321,437	24,024	2,390,803	2,045,342
	1927	60	88	459	610	—	610	243,212	825,411	307,313	285,571	21,742	2,076,645	1,769,332
	1919	77	39	375	459	12	447	73,146	547,234	239,290	224,178	15,112	1,337,342	1,098,052
Michigan	1929	59	128	1,115	1,775	—	1,775	522,342	2,775,534	988,386	915,100	73,286	5,842,498	4,854,112
	1927	44	87	824	1,218	—	1,218	356,663	2,069,106	680,030	635,965	44,065	3,856,321	3,176,291
	1919	52	107	861	636	6	630	301,623	1,724,836	439,093	416,167	23,526	3,270,952	2,840,259
Minnesota	1929	10	6	55	146	—	146	20,725	83,360	34,160	31,356	2,804	178,410	144,250
	1927	9	3	41	84	—	84	6,937	69,584	18,551	15,623	2,928	159,767	111,216
	1919	16	8	124	138	—	138	7,672	135,196	117,986	111,686	6,300	331,316	213,330
Missouri	1929	24	72	194	281	—	281	202,227	314,164	129,748	119,429	10,319	913,721	783,973
	1927	25	54	223	289	—	289	154,842	336,173	153,451	143,198	10,253	869,224	715,773
	1919	26	22	171	197	14	183	40,997	235,391	99,512	92,565	6,947	543,935	444,423
New Jersey	1929	31	30	171	375	15	370	103,798	301,820	124,352	111,848	12,504	757,951	633,599
	1927	20	24	159	354	30	324	56,472	208,364	116,643	104,041	12,002	660,715	544,072
	1919	46	63	463	607	67	540	170,043	614,444	420,266	399,510	20,756	1,420,642	1,000,376
New York	1929	123	189	870	1,468	149	1,319	609,405	1,644,896	944,156	891,642	52,514	4,848,689	3,904,733
	1927	98	192	791	1,303	247	1,056	557,345	1,483,900	763,013	711,981	51,032	3,877,394	3,114,351
	1919	146	207	1,209	1,221	307	914	483,389	1,632,631	1,713,370	1,665,091	48,279	5,137,725	3,424,355
Ohio	1929	112	148	1,186	2,078	15	2,063	540,155	2,296,550	868,905	808,286	60,619	4,924,631	4,055,729
	1927	100	103	912	2,624	1,005	1,619	382,903	1,722,252	677,654	623,976	53,678	2,974,404	2,374,404
	1919	138	165	1,192	6,731	4,875	1,856	303,326	1,914,888	1,703,723	1,632,508	71,215	5,459,746	3,756,023
Oregon	1929	7	3	39	123	—	123	7,924	64,860	17,525	15,830	1,695	122,835	105,330
	1927	7	3	33	118	—	118	9,048	51,628	12,517	11,170	1,367	105,447	93,930
	1919	5	—	22	39	—	39	—	32,410	17,185	16,248	937	70,859	53,674
Pennsylvania	1929	69	46	589	1,102	55	1,047	93,168	939,494	418,194	392,869	25,325	2,161,475	1,743,251
	1927	64	49	549	1,500	55	1,445	137,420	830,393	871,709	831,830	39,879	2,315,833	1,444,124
	1919	99	39	879	1,373	319	1,054	86,744	981,269	549,653	521,748	27,603	2,341,402	1,791,749
Rhode Island	1929	7	8	48	63	—	63	18,641	69,536	19,983	17,097	2,886	170,894	130,911
	1927	6	3	50	77	30	47	5,580	73,623	27,409	24,005	3,304	131,149	103,840
	1919	12	7	83	77	5	72	6,965	109,992	45,329	42,647	2,682	229,936	184,607
Texas	1929	6	1	16	73	—	73	3,000	21,569	10,383	9,269	1,114	71,400	61,017
Washington	1929	13	5	42	190	—	190	7,929	80,266	42,197	39,697	2,500	212,986	170,789
	1927	13	7	33	222	—	222	6,961	55,177	27,571	24,928	2,643	162,503	134,932
	1919	13	5	33	93	—	93	5,908	75,215	25,949	23,670	2,279	144,415	118,466
Wisconsin	1929	42	82	519	770	—	770	247,541	1,041,548	326,270	298,304	27,966	2,058,611	1,732,841
	1927	36	40	375	564	—	564	98,472	610,170	167,981	152,971	15,010	1,090,588	922,607
	1919	40	44	365	350	4	346	122,150	482,344	182,367	170,144	12,223	1,076,873	894,506
Groups of States:														
Ala., 2 est.; Ga., 1;	1929	7	4	33	116	—	116	7,463	61,177	31,294	29,684	1,610	142,631	111,637
La., 2; Tenn., 2.	1929	4	—	10	30	—	30	—	17,958	6,501	5,600	901	43,902	37,401
Del., 2 est.; D. C., 2.	1929	—	—	—	—	—	—	—	—	—	—	—	—	—
Kans., 1 est.; Nebr.,	1929	6	—	13	57	—	57	—	22,157	7,653	7,196	457	60,437	52,784
2; Okla., 3.	1929	3	—	12	13	—	13	3,280	27,881	3,839	3,474	365	60,584	50,745
Ma., 1 est.; N. H., 2.	1929	—	2	—	—	—	—	—	—	—	—	—	—	—
Va., 1 est.; W. Va., 2.	1929	3	—	15	30	15	21	—	24,730	4,701	3,801	900	40,465	35,764
States not shown separately.														
	1927	18	12	76	247	—	247	35,691	133,084	57,965	52,997	4,969	313,703	255,737
	1919	34	10	79	257	36	221	9,615	120,578	60,670	56,479	4,191	283,458	222,788

¹ Not including proprietors and firm members, as follows: For 1929, 684; 1927, 725; 1919, 1,078. The total numbers of persons engaged—proprietors and firm members, salaried officers and employees, and wage earners—as reported for the industry, are as follows: For 1929, 8,434; 1927, 7,100; 1919, 8,800.

² The figures for 1929 refer to sales (shipments or deliveries) by manufacturers; those for earlier years represent production. See GENERAL EXPLANATIONS—Value of Products.

³ Value of products less cost of materials, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

⁴ See footnote 2, Table 1.

⁵ Data for purchased power other than electric (power transmitted into the plant by belt or shaft) are included in the State items for 1919 but not in the United States totals.

⁶ Alabama, 1 establishment; Delaware, 2; District of Columbia, 1; Georgia, 1; Louisiana, 1; Maine, 1; Nebraska, 2; New Hampshire, 2; Tennessee, 2; Texas, 3; Virginia, 1; West Virginia, 1.

⁷ Delaware, 2 establishments; District of Columbia, 4; Georgia, 1; Kansas, 3; Louisiana, 3; Maine, 2; Mississippi, 1; Montana, 1; Nebraska, 2; Oklahoma, 2; Tennessee, 3; Texas, 3; Utah, 2; Vermont, 1; Virginia, 2; West Virginia, 2.

CENSUS OF MANUFACTURES: 1929

TABLE 3.—PRIME MOVERS, MOTORS, GENERATORS, AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY—NUMBER AND RATED CAPACITY OF PRIME MOVERS AND ELECTRIC MOTORS, 1929, 1927, 1925, 1919, AND 1914, AND OF GENERATORS, 1929, 1927, AND 1925; QUANTITY OF ELECTRIC ENERGY PURCHASED, 1929

TYPE	1929		1927		1925		1919		1914		PER CENT DISTRIBUTION OF RATED HORSEPOWER CAPACITY	
	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	1929	1919
Prime movers and electric motors driven by purchased energy, aggregate.....	4,379	<i>Horse-power</i> 12,375	3,508	<i>Horse-power</i> 11,465	2,785	<i>Horse-power</i> 10,473	2,004	<i>Horse-power</i> 13,750	1,139	<i>Horse-power</i> 5,801	100.0	100.0
Prime movers, total.....	12	249	23	1,373	32	1,458	74	5,696	114	1,696	2.0	41.4
Steam, total.....	3	135	7	1,040	6	990	10	4,903	18	612	1.1	35.7
Engines.....	3	135	7	1,040	6	990	8	4,748	(1)	(1)	1.1	34.6
Turbines.....							2	155	(1)	(1)		1.1
Internal-combustion engines.....	8	89	15	313	25	448	62	773	92	978	0.7	5.0
Water wheels and water turbines.....	1	25	1	20	1	20	2	20	4	106	0.2	0.1
Electric motors driven by purchased energy.....	4,367	12,129	3,485	10,092	2,753	9,015	1,930	8,054	1,025	4,105	98.0	58.6
Electric motors, total.....	4,367	12,129	3,505	10,520	2,773	9,443	1,938	8,108	1,035	4,164	100.0	100.0
Driven by purchased energy.....	4,367	12,129	3,485	10,092	2,753	9,015	1,930	8,054	1,025	4,105	100.0	99.3
Driven by energy generated in establishments reporting.....			20	428	20	428	8	54	10	59		0.7
Electric generators.....		<i>Kilowatts</i> <i>Kilowatt-hours</i>	2	<i>Kilowatts</i> 500	2	<i>Kilowatts</i> 500	(?)	(?)	(?)	(?)		
Electric energy purchased ¹		6,405,785		(²)		(²)		(²)		(²)		

¹ Not called for separately on schedule.
² Not called for on schedule.
³ This item covers the consumption of purchased electric energy for all purposes—power, heat, light, etc.
⁴ Data incomplete.

TABLE 4.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1929, 1925, 1919, 1914, AND 1909, AND BY STATES, 1929

[This table presents statistics for only those States for which figures can be given without disclosing data for individual establishments. The sum of the State items in any column is not, therefore, equal to the United States total at the head of the column. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures]

STATE	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum		
		January	February	March	April	May	June	July	August	September	October	November	December			
United States:																
1929.....	6,778	6,557	<i>6,506</i>	6,720	6,761	6,716	6,624	6,657	6,765	7,013	7,110	7,011	6,890	91.5		
1925.....	5,262	<i>6,081</i>	5,175	5,229	5,233	5,214	5,137	5,125	5,320	5,290	5,390	5,438	5,616	92.1		
1919.....	6,949	<i>6,148</i>	6,237	6,382	6,446	6,583	6,756	6,922	7,266	7,340	7,495	7,777	8,058	76.5		
1914.....	4,274	4,238	4,430	4,500	4,466	4,412	4,284	4,338	4,267	4,128	<i>4,031</i>	4,068	4,126	89.6		
1909.....	4,171	<i>3,862</i>	4,041	4,093	4,063	4,032	3,978	4,007	4,075	4,219	4,532	4,627	4,627	85.6		
California.....	278	247	<i>246</i>	256	247	264	291	298	307	302	291	294	296	80.1		
Colorado.....	12	13	13	13	13	13	12	12	11	14	13	11	11	78.6		
Connecticut.....	184	179	184	184	196	192	192	186	178	178	179	180	174	88.8		
Illinois.....	599	578	588	618	620	604	603	607	606	606	594	592	566	91.3		
Indiana.....	160	<i>145</i>	147	152	154	147	164	162	178	174	170	165	161	81.5		
Iowa.....	26	26	27	28	26	<i>25</i>	27	<i>25</i>	26	<i>25</i>	26	27	<i>25</i>	89.3		
Kentucky.....	7	6	6	6	7	7	7	7	7	7	7	7	6	85.7		
Maryland.....	35	<i>32</i>	32	35	35	34	34	35	30	35	37	35	35	86.5		
Massachusetts.....	550	538	<i>522</i>	544	548	545	544	576	586	548	550	549	551	80.1		
Michigan.....	1,115	1,183	1,061	1,134	1,147	1,121	970	<i>921</i>	1,021	1,188	1,265	1,229	1,147	72.8		
Minnesota.....	55	54	54	55	59	56	58	55	55	55	53	<i>52</i>	55	88.1		
Missouri.....	194	<i>187</i>	193	196	192	191	<i>187</i>	192	192	198	204	199	197	91.7		
New Jersey.....	171	<i>169</i>	169	165	171	175	182	170	174	181	160	170	182	87.4		
New York.....	870	863	893	896	866	<i>846</i>	849	850	882	869	900	869	859	94.0		
Ohio.....	1,186	<i>1,110</i>	1,126	1,145	1,157	1,181	1,202	1,223	1,198	1,230	1,220	1,209	1,232	90.1		
Oregon.....	39	43	37	41	46	40	41	36	40	36	<i>35</i>	35	37	77.8		
Pennsylvania.....	589	<i>569</i>	569	545	551	565	563	575	553	668	691	692	654	72.7		
Rhode Island.....	48	49	53	51	49	51	48	<i>44</i>	46	47	49	48	46	83.0		
Texas.....	16	14	15	15	15	14	15	17	19	16	15	18	18	73.7		
Washington.....	42	42	44	42	41	42	40	40	41	41	42	42	41	90.9		
Wisconsin.....	519	504	512	513	546	524	514	541	527	514	523	508	512	92.1		

MOTION PICTURES, NOT INCLUDING PROJECTION IN THEATERS

Although the production of motion pictures is not a manufacturing industry, its commercial importance is so great that data in regard to it have been collected and tabulated at the Biennial Censuses for 1921 and subsequent years. No canvass of the industry as a whole was made at prior censuses, but at the census for 1919 the development of exposed films and the printing of projection films were included in the "Photographic materials" industry.

Description of the industry.—The "Motion-pictures" industry, as constituted for census purposes, embraces all processes and activities connected with the production of motion pictures, such as the photography of scenes, the development of exposed films, the printing of projection films, and other studio and

laboratory work necessary in connection with the preparation of projection films for use. It does not, however, include distribution and projection in theaters.

Value of products.—The nature of the industry is such that figures reported for value of products are necessarily arbitrary, being based sometimes on the cost of producing projection films and sometimes on the estimated rental value of such films. Owing to the difficulty of obtaining value figures of any significance, the total cost of production instead of the value of products has been called for on the schedule. Establishments engaged in laboratory work, however, reported as the value of products the amounts received for work done during the year.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1921 TO 1929

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Paid for contract work	Cost of materials, fuel, and purchased electric energy	Cost of production ¹	Value added by manufacture ²	Horsepower
1929.....	142	10,784	\$24,890,092	\$11,311,716	\$38,441,025	\$184,102,419	\$145,661,394	49,732
1927.....	142	8,415	18,637,005	15,476,548	34,867,472	134,343,360	99,476,888	32,160
1925.....	132	5,573	13,065,756	5,368,593	33,258,368	93,636,348	60,377,980	29,472
1923.....	97	6,408	16,601,153	1,608,866	20,656,770	86,418,170	55,761,400	15,476
1921 ³	127	6,259	14,740,009	563,336	31,190,160	77,397,381	46,267,221	(⁴)
PER CENT OF INCREASE OR DECREASE (—)								
1927-1929.....	7.6	28.2	33.4	-26.9	10.2	37.0	46.4	54.6
1925-1927.....	(⁵)	51.0	42.6	188.3	4.8	43.5	64.8	9.1
1923-1925.....	(⁵)	-13.0	-21.3	233.7	8.5	8.4	8.3	90.4
1921-1923.....	-23.6	2.4	12.6	185.6	-1.7	11.7	20.7

¹See "Value of products," above.

²Cost of production less cost of materials, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

³No comparable figures are available for years prior to 1921.

⁴Not called for on schedule.

⁵Per cent not computed where base is less than 100.

CENSUS OF MANUFACTURES: 1929

TABLE 2.—GENERAL STATISTICS, BY STATES: 1929 AND 1927

[This table presents statistics for all States for which separate figures can be given without disclosing data reported by individual establishments. Certain of the "Other States," however, reported larger production costs than some of the States shown separately]

STATE	Cen- sus year	Num- ber of estab- lish- ments	Sala- ried officers and em- ploy- ees ¹	Wage earn- ers (aver- age for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, FUEL, AND PURCHASED ELECTRIC ENERGY			Cost of produc- tion	Value added by manu- facture ²	Contract work
					Total	Prime mov- ers	Motors run by pur- chased energy			Total	Materials	Fuel and pur- chased energy			
United States.....	1929 1927	142 142	8,818 7,598	10,784 8,415	40,732 32,160	6,864 5,911	42,868 26,240	\$60,167,520 56,298,560	\$24,860,092 18,637,005	\$38,441,025 34,867,472	\$37,078,468 34,320,690	\$762,557 546,776	\$184,102,410 134,343,360	\$145,061,394 99,475,888	\$11,311,716 15,476,548
California.....	1929 1927	58 73	7,117 6,208	8,052 6,614	45,059 27,906	6,425 5,437	38,634 22,469	52,514,220 52,110,037	19,583,302 15,513,665	25,498,890 21,620,123	25,007,630 21,273,149	401,260 346,974	129,391,172 101,044,521	103,892,282 79,424,398	8,827,620 4,945,766
Illinois.....	1929 1927	8 5	120 128	82 41	106 95	----- -----	106 95	374,980 318,422	216,145 70,909	472,741 337,046	462,470 331,440	10,262 6,197	1,154,148 675,793	681,407 338,147	----- 15,545
Michigan.....	1929 1927	4 3	32 34	23 13	14 30	----- -----	14 30	145,850 151,092	46,339 32,367	92,432 173,668	89,922 170,089	2,510 3,579	325,416 427,187	232,084 253,510	----- 4,801
Missouri.....	1929	4	15	14	52	-----	52	34,335	39,122	40,284	36,568	3,716	115,921	75,637	-----
New Jersey.....	1929 1927	6 6	88 96	447 554	867 1,035	175 175	692 860	222,442 198,259	643,632 767,205	1,730,829 4,137,054	1,730,067 4,116,818	28,731 40,236	4,205,046 5,383,353	2,446,218 1,226,299	----- 600
New York.....	1929 1927	30 21	1,155 934	1,695 972	2,850 2,503	264 225	2,586 2,278	6,184,643 3,015,305	3,649,261 1,915,056	9,461,463 7,893,003	9,279,044 7,773,577	181,510 119,426	43,871,940 25,006,118	34,410,477 17,113,115	2,478,760 10,481,301
Ohio.....	1929 1927	8 6	46 52	19 20	34 16	----- -----	34 16	116,899 124,435	33,079 39,062	53,016 59,749	51,576 55,829	2,340 3,920	214,280 250,619	214,280 190,870	----- 3,472
Pennsylvania.....	1929	5	35	46	61	-----	61	99,203	55,400	218,288	213,575	4,713	442,800	224,602	-----
Other States.....	1929 1927	19 23	210 146	406 201	680 575	----- 74	680 501	474,048 381,010	588,812 298,741	844,183 626,220	806,677 590,785	37,506 26,444	4,327,600 1,555,769	3,483,507 929,540	4,736 25,063

¹ Not including proprietors and firm members, as follows: For 1929, 37; 1927, 42. The total numbers of persons engaged—proprietors and firm members, salaried officers and employees, and wage earners—as reported for the industry, are as follows: For 1929, 19,639; 1927, 16,055.

² Cost of production less cost of materials, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

³ Colorado, 1 establishment; Connecticut, 2; Georgia, 1; Iowa, 1; Kansas, 1; Louisiana, 2; Massachusetts, 3; Minnesota, 2; Oregon, 2; Rhode Island, 1; Texas, 2; Wash- ington, 1.

⁴ Colorado, 1 establishment; Florida, 1; Georgia, 1; Iowa, 2; Louisiana, 2; Massachusetts, 3; Minnesota, 2; Missouri, 2; Oregon, 2; Pennsylvania, 4; Texas, 2; Washington, 1.

TABLE 3.—PRODUCTS, BY CLASS, KIND, AND COST OF PRODUCTION, FOR THE UNITED STATES: 1929 AND 1927

[No comparable data are available for years prior to 1927]

CLASS AND KIND	1929	1927	CLASS AND KIND	1929	1927
Total cost of work done during the year.....	\$184,102,419	\$134,343,360	Negative films—Continued.		
Negative films, total cost.....	\$128,496,710	\$96,048,017	News, cost ²	\$6,152,286	\$2,499,660
Theatrical:			Advertising, cost ²	\$3,877,292	\$617,466
Total number.....	1,204	1,347	Educational, cost ²	\$251,001	\$337,169
Total cost.....	\$118,716,041	\$92,593,732	Unfinished productions, cost ²	\$17,873,060	\$13,207,338
Sound:			Laboratory work:		
Number.....	349	(1)	Positive films, cost.....	\$10,646,094	\$12,491,088
Cost.....	\$34,866,785	(1)	Receipts for work done for others.....	\$21,104,878	\$11,921,655
Dialogue:			Value of other work done.....	\$1,643,395	\$615,262
Number.....	585	(1)	Receipts for use of studio facilities.....	\$4,338,282	(1)
Cost.....	\$67,072,006	(1)			
Silent:					
Number.....	270	(1)			
Cost.....	\$16,777,250	(1)			

¹ Not reported separately.

² Data on number incomplete.

THE MUSICAL INSTRUMENTS INDUSTRIES

Description of the industries.—This report covers four industries, namely: (1) Pianos, (2) organs, (3) piano and organ materials, and (4) musical instruments and parts and materials, not elsewhere classified. The first classification embraces establishments whose principal products are complete pianos. The second covers the manufacture of complete pipe organs and reed organs. The third is applied to establishments engaged in the manufacture of piano and organ materials for sale as such. The products include piano strings, plates, keys, actions, keyboards, cases, back frames, pedal attachments, hammers, sounding boards, legs, and bridges; organ reeds, pipes, stops, knobs, and reed boards; and perforated music rolls. The establishments in the fourth industry are engaged primarily in the manufacture of musical instruments other than pianos and organs, and of parts and materials for such instruments.

Duplication in cost of materials and value of products.—Parts and materials for sale as such are made as primary products by all establishments classified in the "piano and organ materials" industry and by some of those in the "Musical instruments and parts and materials, not elsewhere classified" industry. To the extent to which the products of these establishments are used as materials by establishments manufacturing complete instruments, the combined figures for cost of materials and value of products of the four industries taken as a group, as given in Tables 1 and 3, include duplication. In other words, the total cost of materials for the group as a whole, as given in Table 1, exceeds the amount actually expended for materials purchased

from sources outside the group, and the value of products of the group as given in Table 1, exceeds the combined value of the finished products in the form in which they reach the ultimate consumer (this value being based, however, on f. o. b. factory prices, not retail prices). In like manner, the use of the products of certain establishments as materials by other establishments in the "Musical instruments and parts and materials, not elsewhere classified" industry results in duplication within that industry.

Detailed statistics of products.—The differences between the values of pianos, of organs, and of piano and organ parts and materials for sale as such, as given in Table 3, and the values of products of the piano industry, the organ industry, and the piano and organ materials industry, respectively, as given in Tables 1 and 2, are due to the fact that Table 3 covers the entire output of the several items, regardless of the industries reporting them, whereas the statistics in Tables 1 and 2 cover the respective *industries* and therefore relate only to the products actually made in those industries. To illustrate: The total value of *pianos*, made in 1929, \$37,998,695, as given in Table 3, includes the value of pianos made as secondary products in industries other than the piano industry but does not include the value of commodities other than pianos, made as secondary products in the piano industry; whereas the value of products of the piano industry, as given in Tables 1 and 2, \$42,501,375, covers the secondary products made in that industry but does not include data for pianos made in other industries.

TABLE 1.—SUMMARY FOR THE INDUSTRIES IN COMBINATION AND SEPARATELY, FOR THE UNITED STATES: 1899 TO 1929

[Data for establishments with products under \$5,000 in value included for 1919 and prior years but not for 1921 and subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²	Horsepower
THE GROUP AS A WHOLE							
1929	316	18,625	\$25,782,387	\$30,030,326	\$79,981,287	\$49,950,961	49,092
1927	371	28,769	40,585,227	52,691,020	131,065,983	78,374,963	53,598
1925	393	35,713	48,356,886	73,913,403	170,629,405	96,718,002	51,536
1923	424	37,838	50,426,166	78,349,702	175,220,263	96,870,561	49,069
1921	446	27,175	32,719,754	53,930,098	114,775,980	60,845,882	(³)
1919	612	40,020	41,904,511	77,719,622	162,357,279	84,637,657	60,877
1914	719	39,387	24,513,163	42,275,375	92,672,812	50,297,437	45,838
1909	694	39,842	23,753,843	44,654,337	93,017,652	48,363,315	42,306
1904	625	35,220	19,689,146	29,116,566	69,574,340	40,457,774	30,587
1899	619	23,709	12,771,762	18,573,022	44,410,328	25,837,366	21,204
Per cent of increase or decrease (—):							
1927-1929	-14.8	-35.3	-36.5	-43.0	-39.0	-36.3	-8.4
1925-1927	-5.6	-19.4	-16.1	-28.7	-23.2	-19.0	4.0
1923-1925	-7.3	-5.6	-4.1	-5.7	-2.6	-0.2	5.0
1921-1923	-4.9	-39.2	54.1	45.3	59.2	59.2	-----
1919-1921	-27.1	-32.1	-21.9	-30.6	-29.3	-28.1	-----
1919-1929	-48.4	-53.5	-38.5	-61.4	-50.7	-41.0	-3.5
1909-1919	-11.8	0.4	76.4	74.0	75.0	75.0	20.3
1899-1909	12.1	68.0	80.0	140.4	109.5	87.2	99.5

See footnotes at end of table.

THE MUSICAL INSTRUMENTS INDUSTRIES

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TABLE 1.—SUMMARY FOR THE INDUSTRIES IN COMBINATION AND SEPARATELY, FOR THE UNITED STATES:
1899 TO 1929—Continued

[See note at head of this table]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²	Horsepower
PIANOS							
1929	81	9,970	\$14,000,828	\$18,866,437	\$42,501,375	\$23,634,938	27,193
1927	124	16,582	23,890,549	33,896,668	75,490,681	41,692,013	29,726
1925	142	20,070	28,096,207	49,286,643	101,180,777	51,685,134	26,912
1923	160	22,208	30,679,198	54,178,803	111,159,398	56,980,595	26,859
1921	185	15,836	18,887,128	38,651,996	73,039,912	34,987,616	(*)
1919	191	22,957	25,474,200	54,384,656	107,088,050	52,723,394	28,697
1914	255	23,877	15,704,679	29,091,045	62,775,035	35,653,960	28,838
1909	294	25,497	15,737,277	32,818,770	66,599,273	35,750,503	22,958
1904	249	21,002	12,170,251	19,587,770	46,922,471	27,334,701	17,186
Per cent of increase or decrease (-):							
1927-1929	-34.7	-39.9	-41.4	-44.3	-43.7	-43.2	-8.5
1925-1927	-12.7	-17.4	-15.0	-31.2	-25.4	-19.8	10.5
1923-1925	-11.2	-9.6	-8.4	-9.0	-9.0	-8.9	0.2
1921-1923	-13.5	40.2	62.4	40.2	50.9	62.9	
1919-1921	-3.1	-31.0	-26.9	-23.9	-31.2	-33.6	
1919-1929	-57.6	-56.6	-45.0	-65.3	-60.3	-55.2	-5.2
1909-1919	-35.0	-10.0	61.9	65.7	60.9	56.2	25.0
ORGANS							
1929	62	2,389	\$3,603,631	\$3,090,676	\$11,322,736	\$8,232,070	4,740
1927	63	2,770	4,363,731	4,494,449	15,438,623	10,944,174	4,332
1925	57	2,460	3,609,686	3,748,942	12,283,089	8,534,147	3,983
1923	59	1,855	2,661,804	2,802,566	9,602,692	6,800,126	2,902
1921	50	2,349	3,342,795	3,730,917	10,184,864	6,453,937	(*)
1919	68	1,941	1,978,518	2,217,097	5,973,268	3,760,171	3,245
1914	85	3,063	1,993,415	2,669,980	6,297,348	3,637,368	3,666
1909	86	2,383	1,428,641	1,722,923	4,745,655	3,022,732	3,309
1904	94	3,623	2,034,559	2,068,638	6,041,844	3,973,206	3,863
Per cent of increase or decrease (-):							
1927-1929	(*)	-13.8	-17.4	-31.2	-26.6	-24.8	9.4
1925-1927	(*)	12.6	20.9	19.9	25.7	28.2	8.8
1923-1925	(*)	32.6	35.6	33.8	27.9	25.5	37.3
1921-1923	(*)	-20.9	-20.4	-24.9	-5.7	5.4	
1919-1921	(*)	20.9	69.0	68.3	70.5	71.8	
1919-1929	(*)	23.1	82.1	39.4	89.6	119.2	46.1
1909-1919	(*)	-18.5	38.5	28.7	25.9	24.3	-1.9
PIANO AND ORGAN MATERIALS							
1929	67	3,090	\$3,597,210	\$4,247,919	\$11,833,098	\$7,635,179	11,699
1927	85	5,399	6,693,645	9,657,350	22,244,731	12,687,381	14,187
1925	94	8,618	10,131,137	15,293,633	36,836,238	21,542,603	15,734
1923	99	9,672	11,243,188	17,019,395	38,838,735	21,819,340	15,478
1921	89	5,569	6,969,804	8,221,840	18,597,436	10,375,586	(*)
1919	113	11,009	16,693,140	16,693,140	36,789,627	20,096,487	15,716
1914	138	10,616	5,654,557	9,591,766	19,875,762	10,373,996	14,569
1909	127	10,140	5,595,650	9,223,044	18,474,616	9,251,572	14,799
1904	101	8,456	4,322,268	6,330,219	13,128,315	6,798,096	8,197
Per cent of increase or decrease (-):							
1927-1929	(*)	-42.8	-45.4	-55.0	-46.6	-39.3	-21.8
1925-1927	(*)	-37.4	-34.9	-36.9	-39.6	-41.6	-9.8
1923-1925	(*)	-10.9	-9.9	-10.1	-5.2	-1.3	1.7
1921-1923	(*)	73.7	88.3	107.0	108.8	110.3	
1919-1921	-21.2	-49.4	-43.0	-50.7	-49.4	-48.4	
1919-1929	-40.7	-71.9	-65.6	-74.6	-67.7	-62.0	-20.4
1909-1919	-11.0	8.0	57.1	81.0	99.1	117.2	6.8
MUSICAL INSTRUMENTS AND PARTS AND MATERIALS, NOT ELSEWHERE CLASSIFIED							
1929	106	3,176	\$4,580,720	\$3,825,294	\$14,274,078	\$10,448,784	6,060
1927	99	4,018	5,737,005	4,640,553	17,891,948	13,251,395	5,356
1925	100	4,556	6,519,956	5,576,183	20,329,301	14,754,118	4,907
1923	108	4,103	5,811,976	4,348,938	16,619,438	11,270,500	3,830
1921	116	3,424	4,520,020	3,325,345	12,353,778	9,028,433	(*)
1919	240	4,113	3,984,656	4,444,729	12,506,334	8,061,005	3,219
1914	241	1,831	1,160,612	1,022,584	3,624,667	2,602,083	1,765
1909	187	1,822	992,275	889,600	3,228,108	2,338,508	1,249
1904	181	2,139	1,162,068	1,129,939	3,481,710	2,351,771	1,341
1899	229	2,405	1,232,639	1,205,337	3,394,734	2,189,397	1,267
Per cent of increase or decrease (-):							
1927-1929	(*)	-21.0	-20.2	-17.6	-20.2	-21.1	13.1
1925-1927	-1.0	-11.8	-11.6	-16.8	-12.0	-10.2	9.2
1923-1925	-5.7	11.0	11.6	28.2	30.2	30.9	28.1
1921-1923	-8.6	19.8	29.2	30.8	26.4	24.8	
1919-1921	-51.7	-16.8	13.4	-25.2	-1.2	12.0	
1919-1929	-55.8	-22.8	15.0	-13.9	14.1	20.6	88.3
1909-1919	28.3	125.7	301.6	399.6	287.4	244.7	187.7
1899-1909	-18.8	-24.2	-19.8	-20.2	-4.9	6.8	-1.4

¹ For 1929, manufacturers' sales (shipments or deliveries); for earlier years, production. See GENERAL EXPLANATIONS—Value of Products.
² Value of products less cost of materials, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.
³ Not called for on schedule.
⁴ No comparable figures available for years prior to 1904.
⁵ Per cent not computed where base is less than 100.

THE MUSICAL INSTRUMENTS INDUSTRIES

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TABLE 2.—GENERAL STATISTICS FOR THE INDUSTRIES, BY STATES: 1929, 1927, AND 1919—Continued

[See note at head of this table]

STATE	Census year	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products ¹	Value added by manufacture ²
					Total	Prime movers	Motors run by purchased energy			Total	Materials	Fuel and purchased energy		
PIANO AND ORGAN MATERIALS—continued														
Massachusetts	1929	7	28	195	601	410	191	\$79,776	\$227,771	\$180,209	\$167,881	\$12,328	\$534,174	\$353,065
	1927	13	74	667	1,682	935	747	101,051	855,490	869,995	814,824	55,171	2,245,514	1,375,519
	1919	21	92	1,681	1,793	1,128	665	284,126	1,527,351	2,251,697	2,186,506	65,131	4,774,148	2,522,451
New Jersey	1929	6	61	216	888	640	248	135,121	215,244	358,270	333,644	24,626	812,806	454,536
	1927	7	82	217	795	310	485	89,287	398,851	342,911	309,898	33,013	883,178	540,267
	1919	11	134	758	755	596	159	277,958	629,329	672,926	850,097	22,829	2,822,142	1,949,216
New York	1929	18	152	992	3,281	1,935	1,346	477,096	1,141,225	1,178,574	1,090,593	87,981	3,822,649	2,684,076
	1927	27	258	2,052	4,359	2,410	1,949	834,161	2,320,632	3,851,439	3,725,316	126,123	8,486,006	4,634,567
	1919	30	278	4,141	5,421	3,613	1,808	685,549	3,993,403	6,408,745	6,268,953	139,792	13,569,119	7,160,374
Pennsylvania	1929	6	19	73	185		185	68,788	108,782	192,040	186,976	5,064	408,718	216,678
	1927	4	12	67	67		67	42,947	102,343	201,611	195,086	6,525	422,622	221,011
	1919	5	14	119	201	87	114	33,522	132,611	311,904	304,167	7,737	550,855	238,951
Wisconsin	1929	3	8	14	49		49	17,493	16,633	34,500	33,558	942	89,195	54,695
Other States	¹⁹²⁹ 1929	9	62	428	2,000	75	1,025	229,396	519,789	643,308	665,528	37,780	1,715,254	1,071,946
	¹⁹²⁷ 1927	16	98	711	2,664	190	2,474	245,843	908,022	854,820	819,293	35,627	2,724,779	1,899,959
	¹⁹¹⁹ 1919	25	147	1,808	4,304	2,346	2,048	349,390	1,892,132	2,649,375	2,594,606	54,769	6,268,918	3,619,543
MUSICAL INSTRUMENTS AND PARTS AND MATERIALS, NOT ELSEWHERE CLASSIFIED														
United States	1929	100	¹³ 755	3,176	6,060	19	6,041	1,751,258	4,580,720	3,825,294	3,614,856	210,438	14,274,078	10,448,784
	1927	99	¹³ 700	4,018	5,356	125	5,231	1,553,504	5,737,005	4,640,553	4,431,824	208,729	17,891,948	13,251,395
	1919	240	¹⁵ 621	4,113	8,219	330	2,889	1,032,172	3,984,656	4,444,729	4,295,490	149,239	12,506,334	8,061,605
California	1929	0	12	82	118		118	28,527	104,523	50,934	49,226	1,708	276,077	225,143
	1927	0	10	59	78		78	22,377	78,670	36,461	35,024	1,437	206,192	163,731
	1919	16	4	89	96		96	5,900	64,677	72,288	69,773	2,615	222,236	149,948
Illinois	1929	20	128	566	1,479		1,479	353,640	924,577	1,063,169	1,043,336	49,773	3,078,813	1,985,704
	1927	21	122	780	1,445	35	1,410	410,133	1,132,515	1,316,594	1,286,408	50,186	3,741,968	2,425,374
	1919	23	89	669	628	33	593	233,053	694,716	799,314	773,058	2,770,658	2,170,915	1,371,601
Indiana	1929	11	346	1,156	1,666		1,666	714,678	1,672,405	1,137,179	1,096,950	70,229	5,107,888	3,970,709
	1927	13	259	1,574	1,634		1,634	521,714	2,272,332	1,339,281	1,271,131	68,150	7,221,737	5,882,456
	1919	14	153	1,337	825	20	805	163,000	1,228,834	1,101,260	1,057,950	43,319	3,148,410	2,047,141
Massachusetts	1929	8	40	206	76	3	73	80,239	250,127	121,947	114,615	7,332	576,596	454,649
	1927	8	51	229	143	65	78	88,974	308,009	221,477	214,494	6,983	788,340	560,863
	1919	25	36	246	262	139	123	70,692	238,470	279,950	272,990	6,990	792,714	512,734
Michigan	1929	5	35	167	940		940	72,250	231,773	134,896	118,120	16,776	677,964	543,098
	1927	5	55	202	347		347	112,444	286,717	378,200	360,745	17,452	1,072,744	694,544
	1919	11	89	378	268		268	123,572	389,258	258,469	245,348	13,121	866,101	607,632
New Jersey	1929	4	33	194	391	4	387	74,658	221,201	254,145	239,077	15,068	720,143	465,998
	1927	4	28	319	439	4	435	46,153	337,068	406,549	390,396	16,153	1,391,322	984,773
	1919	8	27	291	317	63	254	63,833	263,851	421,827	408,977	12,850	987,216	565,389
New York	1929	33	58	244	465	12	453	153,254	375,445	412,958	395,640	17,818	1,396,019	983,061
	1927	25	53	282	437	21	416	114,107	398,270	402,718	378,164	24,564	1,137,429	734,711
	1919	67	78	352	261	19	242	142,500	379,677	678,107	664,943	13,164	2,059,667	1,381,560
Pennsylvania	1929	4	8	52	109		109	24,859	79,133	37,896	32,933	4,963	170,336	132,440
	1927	7	15	120	177		177	36,117	154,255	101,667	94,901	6,796	383,762	282,095
	1919	22	21	115	93	24	69	30,741	109,017	108,325	103,113	5,212	327,973	219,648
Other States	¹⁹²⁹ 1929	12	95	479	816		816	239,153	721,536	582,230	554,959	27,271	2,270,212	1,687,982
	¹⁹²⁷ 1927	7	107	453	656		656	201,483	769,109	437,606	420,558	17,048	1,954,454	1,516,848
	¹⁹¹⁹ 1919	54	124	636	536	30	506	197,981	886,156	725,150	699,338	25,812	1,931,102	1,205,952

¹ For 1929, manufacturers' sales (shipments or deliveries); for earlier years, production. See GENERAL EXPLANATIONS—Value of Products.

² Value of products less cost of materials, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

³ Not including proprietors and firm members, as follows: For 1929, 4; 1927, 18; 1919, 33. The total numbers of persons engaged—proprietors and firm members, salaried officers and employees, and wage earners—as reported for the industry, are as follows: For 1929, 11,101; 1927, 18,843; 1919, 25,760.

⁴ Data for purchased power other than electric (power transmitted into the plant by belt or shaft) are included in the State items for 1919 but not in the United States totals.

⁵ Iowa, 1 establishment; Maryland, 2; Minnesota, 1; Missouri, 1; New Jersey, 3; Ohio, 2; Pennsylvania, 5.

⁶ California, 1 establishment; Kentucky, 1; Maryland, 2; Minnesota, 1; Missouri, 1; New Jersey, 5; Ohio, 2; Pennsylvania, 5.

⁷ Alabama, 1 establishment; Connecticut, 5; Iowa, 1; Kentucky, 2; Maine, 1; Maryland, 3; Minnesota, 2; New Jersey, 6; Ohio, 10; Pennsylvania, 11.

⁸ Not including proprietors and firm members—as reported for the industry, are as follows: For 1929, 2,756; 1927, 3,138; 1919, 2,285.

⁹ Connecticut, 3 establishments; District of Columbia, 1; Iowa, 1; Kansas, 1; Kentucky, 2; Maryland, 1; Missouri, 2; New Jersey, 2; Vermont, 1.

¹⁰ California, 3 establishments; Connecticut, 2; Iowa, 1; Kentucky, 3; Maryland, 2; Minnesota, 2; Missouri, 2; New Jersey, 2; North Carolina, 1; Vermont, 1; Virginia, 2.

¹¹ Not including proprietors and firm members, as follows: For 1929, 21; 1927, 31; 1919, 38. The total numbers of persons engaged—proprietors and firm members, salaried officers and employees, and wage earners—as reported for the industry, are as follows: For 1929, 3,621; 1927, 6,150; 1919, 11,886.

¹² California, 1 establishment; Maryland, 2; Mississippi, 1; Ohio, 4; Washington, 1.

¹³ California, 3 establishments; Indiana, 1; Maryland, 2; Minnesota, 1; Missouri, 1; Ohio, 5; Washington, 1; Wisconsin, 2.

¹⁴ California, 2 establishments; Indiana, 2; Kentucky, 1; Louisiana, 1; Maryland, 2; Michigan, 3; New Hampshire, 1; Ohio, 6; Rhode Island, 1; Vermont, 2; Virginia, 1; Washington, 1; Wisconsin, 2.

¹⁵ Not including proprietors and firm members, as follows: For 1929, 52; 1927, 78; 1919, 223. The total numbers of persons engaged—proprietors and firm members, salaried officers and employees, and wage earners—as reported for the industry, are as follows: For 1929, 3,983; 1927, 4,796; 1919, 4,957.

¹⁶ Connecticut, 2 establishments; Maryland, 1; Missouri, 1; Ohio, 5; Oregon, 1; Rhode Island, 1; Wisconsin, 1.

¹⁷ Connecticut, 2 establishments; Missouri, 2; Ohio, 2; Wisconsin, 1.

¹⁸ Colorado, 2 establishments; Connecticut, 6; Florida, 1; Iowa, 4; Kentucky, 1; Maine, 2; Maryland, 1; Minnesota, 3; Missouri, 5; North Carolina, 1; Ohio, 11; Oklahoma, 1; Oregon, 1; Texas, 1; Vermont, 1; Washington, 5; West Virginia, 1; Wisconsin, 7.

CENSUS OF MANUFACTURES: 1929

TABLE 3.—PRODUCTS, BY KIND, NUMBER, AND VALUE, FOR THE UNITED STATES: 1923 TO 1929

The figures for 1929 refer to sales (shipments or deliveries) by manufacturers; those for earlier years represent production. See GENERAL EXPLANATIONS—Value of Products

KIND	1929	1927	1925	1923
1. The musical-instruments industries, all products, total value.....	\$79,981,287	\$131,065,983	\$170,629,405	\$175,220,263
2. Musical instruments, parts, and materials.....	\$73,082,681	\$125,900,802	\$164,810,338	\$168,868,751
3. Other products (normally belonging to other industries) and receipts for custom work and repairing.....	\$6,898,606	\$5,165,181	\$5,810,067	\$6,351,512
4. Musical instruments, parts, and materials made as secondary products in other industries, value.....	\$3,746,657	\$1,450,185	\$112,848	\$57,982
Musical instruments, parts, and materials, all industries: Aggregate value (sum of 2 and 4).....	\$76,829,338	\$127,350,987	\$164,923,186	\$168,926,733
Pianos—				
Total number.....	130,973	218,140	306,684	347,689
Total value.....	\$37,093,695	\$67,210,775	\$93,676,977	\$104,362,678
Upright—				
Number.....	40,039	69,864	87,285	105,748
Value.....	\$7,869,761	\$12,261,827	\$16,873,982	\$21,675,047
Upright, player—				
Number.....	17,336	76,447	143,831	170,540
Value.....	\$4,116,294	\$20,027,574	\$38,166,755	\$46,295,896
Upright, player, reproducing type—				
Number.....	1,445	4,096	5,476	12,658
Value.....	\$450,668	\$1,419,933	\$2,193,001	\$4,048,998
Grand—				
Baby—				
Number.....	36,929	43,772	40,357	38,024
Value.....	\$12,551,376	\$17,540,842	\$16,244,241	\$16,100,916
Baby, player—				
Number.....	384	490	5,287	1,367
Value.....	\$159,884	\$300,025	\$2,042,350	\$937,195
Baby, player, reproducing type—				
Number.....	5,905	7,223	7,597	5,372
Value.....	\$2,672,047	\$5,550,007	\$6,317,357	\$4,402,002
Parlor—				
Number.....	7,767	8,757	9,170	5,899
Value.....	\$4,159,979	\$5,319,799	\$5,433,129	\$3,834,410
Parlor, player—				
Number.....	42	42	156	106
Value.....	\$30,159	\$30,422	\$103,801	\$107,776
Parlor, player, reproducing type—				
Number.....	2,165	1,182	2,543	2,631
Value.....	\$2,135,268	\$1,695,631	\$3,526,957	\$2,957,420
Concert—				
Number.....	234	293	579	666
Value.....	\$154,821	\$290,034	\$452,361	\$932,422
Automatic and electric—				
Number.....	19,727	5,974	4,303	4,639
Value.....	\$3,380,438	\$2,768,591	\$2,322,543	\$2,380,497
Organs—				
Total number.....	4,502	5,562	6,315	8,484
Total value.....	\$11,528,667	\$17,167,408	\$13,249,750	\$10,192,304
Pipe—				
Number.....	1,799	2,471	1,955	1,712
Value.....	\$11,153,383	\$16,782,128	\$12,808,220	\$9,652,690
Reed—				
Number.....	2,703	3,091	4,360	7,772
Value.....	\$375,284	\$385,280	\$441,530	\$538,614
Wind instruments, total value.....	\$5,544,747	\$8,304,785	\$9,477,978	\$7,811,981
Cup-mouthpiece instruments—				
Number.....	71,594			
Value.....	\$2,459,763			
Saxophones—		\$6,550,097	\$8,846,386	\$7,805,014
Number.....	33,196			
Value.....	\$2,085,010			
Woodwinds—				
Number.....	23,906	(¹)	(¹)	(¹)
Value.....	\$999,074	\$1,844,688	\$631,592	\$506,667
Stringed instruments, total value.....	\$3,067,231	\$4,201,013	\$5,868,714	\$3,468,424
Banjos—				
Number.....	80,471	(¹)	(¹)	(¹)
Value.....	\$1,192,498	(¹)	(¹)	(¹)
Guitars—				
Number.....	162,764	(¹)	(¹)	(¹)
Value.....	\$1,040,810	(¹)	(¹)	(¹)
Mandolins—				
Number.....	28,400	(¹)	(¹)	(¹)
Value.....	\$244,625	(¹)	(¹)	(¹)
Ukuleles—				
Number.....	142,896	(¹)	(¹)	(¹)
Value.....	\$310,776	(¹)	(¹)	(¹)
Violins—				
Number.....	4,127	(¹)	(¹)	(¹)
Value.....	\$219,235	(¹)	(¹)	(¹)
Other stringed instruments, value.....	\$59,377	(¹)	(¹)	(¹)
Percussion instruments, value.....	\$2,184,832		\$2,880,458	\$2,288,126
Other instruments, value.....	\$728,523	\$2,715,312		
Piano and organ parts and materials for sale as such, total value.....	\$12,946,192	\$25,482,165	\$37,915,178	\$38,962,113
Pneumatic player actions for installation in player pianos—				
Number.....	50,606	(¹)	(¹)	(¹)
Value.....	\$2,778,598	\$9,607,914	\$14,782,477	\$14,693,117
Other piano parts and materials, value.....	\$6,517,304	\$13,847,237	\$15,222,975	\$17,694,800
Organ parts and materials, value.....	\$1,040,740	\$1,810,024	\$1,842,197	\$1,302,582
Perforated music rolls, value.....	\$2,555,544	\$3,216,960	\$6,037,520	\$5,281,614
Parts and materials for musical instruments other than pianos and organs, for sale as such, value.....	\$2,830,451	\$2,170,529	\$1,867,131	\$1,851,207

¹ Includes data for pianos not reported by kind.² Not reported separately.³ Includes value of a few cabinet player attachments. No cabinet player attachments were reported in 1929.⁴ Includes value of a few orchestrions, in order to avoid disclosing data for individual establishments. No data for orchestrions were called for on the schedule for 1929.

TABLE 4.—PRODUCTS, BY KIND, NUMBER, AND VALUE, BY STATES: 1929 AND 1927

The figures for 1929 refer to sales (shipments or deliveries) by manufacturers; those for 1927 represent production. See GENERAL EXPLANATIONS—Value of Products. Figures are given for each State which can be shown separately without disclosing data for individual establishments. Certain of the "Other States," however, reported larger numbers and values of certain products than some of the States shown separately.]

KIND AND STATE	1929		1927		KIND AND STATE	1929	1927
	Number	Value	Number	Value		Value	Value
Pianos, total.....	130,973	\$37,998,695	218,140	\$67,210,775	Band and orchestral instruments, total.....	\$11,625,333	\$15,311,110
Upright pianos.....	67,820	12,445,723	150,407	33,700,334	Wind instruments.....	5,544,747	8,394,785
Illinois.....	30,086	5,055,818	47,493	9,513,990	Illinois.....	92,294	85,951
Indiana.....	2,344	466,650	17,263	3,549,704	Indiana.....	3,715,170	5,592,595
Massachusetts.....	2,972	523,495	4,940	1,359,113	Massachusetts.....	318,133	698,971
Michigan.....	6,634	1,202,210	10,631	2,574,123	New York.....	102,690	197,369
New York.....	18,248	8,499,746	49,607	12,098,410	Other States ⁷	1,316,560	1,910,769
Wisconsin.....	1,178	274,384	4,562	880,639	Stringed instruments.....	3,067,231	4,201,013
Other States ¹	6,368	1,418,420	10,011	3,739,965	Illinois.....	1,235,058	1,790,777
Grand pianos.....	53,426	22,163,534	61,759	30,732,850	New York.....	455,951	448,406
Illinois.....	11,833	4,261,190	11,043	4,390,626	Other States ⁸	1,340,222	1,961,830
Indiana.....	7,815	1,498,403	6,302	2,004,514	Percussion and other instruments.....	2,913,355	2,715,312
Massachusetts.....	5,778	2,886,033	7,680	4,766,367	California.....	78,300	
New York.....	17,778	8,990,956	23,678	12,684,681	Illinois.....	1,526,340	1,679,439
Other States ²	10,222	4,523,952	13,047	6,887,262	New York.....	322,283	(?)
Automatic and electric pianos ³	4,927	3,389,438	5,974	2,768,591	Other States ¹⁰	956,432	1,068,873
Organs, total.....	4,502	11,528,607	5,592	17,167,408			
Pipe organs.....	1,790	11,153,383	2,471	16,782,128			
Illinois.....	844	1,035,761	401	1,575,026			
Massachusetts.....	114	1,448,797	92	1,538,123			
New York.....	152	1,033,978	463	2,822,860			
Ohio.....	78	422,794	103	698,199			
Pennsylvania.....	77	526,328	101	653,104			
Wisconsin.....	84	458,064	107	990,345			
Other States ⁴	950	6,227,661	1,204	8,504,654			
Reed organs ⁵	2,703	375,284	3,091	385,280			

¹ For 1929, Iowa, Maryland, Minnesota, New Jersey, Ohio, Pennsylvania; for 1927, California, Kentucky, Maryland, Minnesota, Missouri, New Jersey, Ohio, Pennsylvania.
² For 1929, Maryland, Michigan, Minnesota, New Jersey, Ohio, Pennsylvania, Wisconsin; for 1927, Maryland, Minnesota, New Jersey, Ohio, Pennsylvania, Wisconsin.
³ For 1929, Illinois, Michigan, Missouri, New York; for 1927, Illinois, Massachusetts, Michigan, New York, Wisconsin.
⁴ Includes data for pianos not reported by kind.
⁵ For 1929, California, Connecticut, District of Columbia, Iowa, Kansas, Kentucky, Maryland, Missouri, New Jersey, Oregon, Vermont; for 1927, California, Connecticut, District of Columbia, Iowa, Kansas, Kentucky, Maryland, Missouri, New Jersey, Vermont.
⁶ For 1929, Illinois, Vermont, Wisconsin; for 1927, Illinois, Ohio, Vermont.
⁷ For 1929, California, Michigan, Ohio, Pennsylvania, Rhode Island, Wisconsin; for 1927, California, Michigan, Ohio, Pennsylvania, Wisconsin.
⁸ For 1929, California, Connecticut, Indiana, Massachusetts, Michigan, New Jersey, Ohio, Oregon, Pennsylvania; for 1927, California, Connecticut, Indiana, Michigan, Missouri, New Jersey, Ohio, Pennsylvania.
⁹ Withheld from publication in order to avoid disclosing data for individual establishments.
¹⁰ For 1929, Indiana, Maryland, Massachusetts, Michigan, Missouri, Ohio; for 1927, Indiana, Massachusetts, Michigan, Missouri, New York, Pennsylvania.

TABLE 5.—PRIME MOVERS, MOTORS, GENERATORS, AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY—NUMBER AND RATED CAPACITY OF PRIME MOVERS AND ELECTRIC MOTORS, 1929, 1927, 1925, 1919, AND 1914, AND OF GENERATORS, 1929, 1927, AND 1925; QUANTITY OF ELECTRIC ENERGY PURCHASED, 1929; FOR THE INDUSTRIES

TYPE	1929		1927		1925		1919		1914		PER CENT DISTRIBUTION OF RATED HORSEPOWER CAPACITY	
	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	1929	1919
PIANOS												
Prime movers and electric motors driven by purchased energy, aggregate.....	2,883	Horsepower 27,193	2,812	Horsepower 29,725	1,942	Horsepower 26,912	1,761	Horsepower 28,697	962	Horsepower 25,838	100.0	100.0
Prime movers, total.....	60	13,165	94	16,148	94	15,135	154	20,545	178	21,491	48.4	71.6
Steam, total.....	59	12,990	78	15,897	92	14,964	147	19,822	163	20,636	47.8	60.1
Engines.....	51	11,060	68	14,789	83	14,224	122	19,015	(?)	(?)	44.0	66.3
Turbines.....	8	1,030	10	1,108	9	740	25	807	(?)	(?)	3.8	2.8
Internal-combustion engines.....	1	175	1	175	2	171	6	623	10	710	0.6	2.2
Water wheels and water turbines.....			15	76			1	100	8	145		0.3
Electric motors driven by purchased energy.....	2,823	14,028	2,718	13,577	1,848	11,777	1,607	8,152	784	4,347	51.6	28.4
Electric motors, total.....	4,626	26,941	4,486	26,333	3,469	22,104	2,656	17,270	1,882	12,689	100.0	100.0
Driven by purchased energy.....	2,823	14,028	2,718	13,577	1,848	11,777	1,607	8,152	784	4,347	52.1	47.2
Driven by energy generated in establishments reporting.....	1,803	12,913	1,768	12,756	1,621	10,327	1,049	9,118	1,098	8,342	47.9	52.8
Electric generators.....	44	Kilowatts 6,510 Kilowatt-hours 7,400,953	54	Kilowatts 10,538	56	Kilowatts 6,619	(?)	(?)	(?)	(?)		
Electric energy purchased ¹				(?)		(?)		(?)		(?)		

See footnotes at end of table.

CENSUS OF MANUFACTURES: 1929

TABLE 5.—PRIME MOVERS, MOTORS, GENERATORS, AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY—NUMBER AND RATED CAPACITY OF PRIME MOVERS AND ELECTRIC MOTORS, 1929, 1927, 1925, 1919, AND 1914, AND OF GENERATORS, 1929, 1927, AND 1925; QUANTITY OF ELECTRIC ENERGY PURCHASED, 1929; FOR THE INDUSTRIES—Continued

TYPE	1929		1927		1925		1919		1914		PER CENT DISTRIBUTION OF RATED HORSE-POWER CAPACITY	
	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	1929	1919
ORGANS												
Prime movers and electric motors driven by purchased energy, aggregate.....	1, 174	Horse-power 4, 740	1, 112	Horse-power 4, 332	934	Horse-power 3, 983	477	Horse-power 3, 245	536	Horse-power 3, 666	100.0	100.0
Prime movers, total.....	8	1, 000	9	704	25	790	22	1, 548	29	1, 989	21.1	47.7
Steam engines.....	7	985	6	655	22	740	14	1, 860	19	1, 770	20.8	41.9
Internal-combustion engines.....	1	15	3	49	3	50	8	188	10	219	0.3	5.8
Electric motors driven by purchased energy.....	1, 166	3, 740	1, 103	3, 628	909	3, 193	455	1, 697	507	1, 677	78.9	52.3
Electric motors, total.....	1, 213	3, 910	1, 103	3, 628	909	3, 193	586	2, 106	519	1, 968	100.0	100.0
Driven by purchased energy.....	1, 166	3, 740	1, 103	3, 628	909	3, 193	455	1, 697	507	1, 677	95.7	80.6
Driven by energy generated in establishments reporting.....	47	170					131	409	12	201	4.3	19.4
Electric generators.....	3	Kilowatts 480 Kilowatt-hours 1, 471, 758	1	Kilowatts 300		Kilowatts	(?)	(?)	(?)	(?)		
Electric energy purchased ¹				(?)		(?)		(?)		(?)		
PIANO AND ORGAN MATERIALS												
Prime movers and electric motors driven by purchased energy, aggregate.....	990	Horse-power 11, 069	1, 022	Horse-power 14, 185	1, 269	Horse-power 15, 734	838	Horse-power 15, 716	581	Horse-power 14, 569	100.0	100.0
Prime movers, total.....	38	5, 955	58	7, 588	53	7, 875	81	10, 535	114	11, 547	53.7	67.0
Steam, total.....	29	5, 580	47	6, 978	45	7, 295	57	9, 730	81	10, 386	50.3	61.9
Engines.....	24	5, 405	39	6, 650	39	7, 115	55	9, 675	(?)	(?)	48.7	61.6
Turbines.....	5	175	8	328	6	180	2	55	(?)	(?)	1.6	0.3
Internal-combustion engines.....	3	139	6	470	5	485	11	469	19	663	1.2	3.0
Water wheels and water turbines.....	6	245	5	140	3	95	13	336	14	498	2.2	2.1
Electric motors driven by purchased energy.....	952	5, 144	964	6, 597	1, 210	7, 859	757	5, 181	467	3, 022	46.3	33.0
Electric motors, total.....	2, 047	9, 833	2, 473	13, 055	2, 243	15, 081	1, 404	9, 390	769	6, 835	100.0	100.0
Driven by purchased energy.....	952	5, 144	964	6, 597	1, 216	7, 859	757	5, 181	467	3, 022	52.3	55.2
Driven by energy generated in establishments reporting.....	1, 095	4, 689	1, 509	7, 058 Kilowatts 5, 133	1, 027	7, 222 Kilowatts 5, 118	647	4, 209	302	3, 813	47.7	44.8
Electric generators.....	24	Kilowatts 1, 776 Kilowatt-hours 4, 065, 913	35	Kilowatts 5, 133	43	Kilowatts 5, 118	(?)	(?)	(?)	(?)		
Electric energy purchased ¹				(?)		(?)		(?)		(?)		
MUSICAL INSTRUMENTS AND PARTS AND MATERIALS, NOT ELSEWHERE CLASSIFIED												
Prime movers and electric motors driven by purchased energy, aggregate.....	2, 409	Horse-power 9, 060	2, 373	Horse-power 5, 356	2, 028	Horse-power 4, 907	1, 053	Horse-power 3, 219	302	Horse-power 1, 765	100.0	100.0
Prime movers, total.....	4	19	8	125	8	126	23	330	37	1, 079	0.3	10.3
Steam engines.....	1	3	2	100	2	100	5	142	9	360	(?)	4.4
Internal-combustion engines.....	3	16	6	25	6	25	13	83	24	584	0.3	2.7
Water wheels and water turbines.....							5	100	4	135		3.1
Electric motors driven by purchased energy.....	2, 405	6, 041	2, 365	5, 231	2, 020	4, 781	1, 030	2, 889	265	686	99.7	89.7
Electric motors, total.....	2, 405	6, 041	2, 365	5, 231	2, 020	4, 781	1, 051	2, 916	292	898	100.0	100.0
Driven by purchased energy.....	2, 405	6, 041	2, 365	5, 231	2, 020	4, 781	1, 030	2, 889	265	686	100.0	99.1
Driven by energy generated in establishments reporting.....							21	27	27	212		0.9
Electric energy purchased ¹		Kilowatt-hours 3, 840, 433		(?)		(?)		(?)		(?)		

¹ Not called for separately on schedule.

² Not called for on schedule.

³ This item covers the consumption of purchased electric energy for all purposes—power, heat, light, etc.

⁴ Data incomplete.

⁵ Less than one-tenth of 1 per cent.

THE MUSICAL INSTRUMENTS INDUSTRIES

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TABLE 6.—WAGE EARNERS, BY MONTHS, FOR THE INDUSTRIES, FOR THE UNITED STATES, 1929, 1925, 1919, 1914, AND 1909, AND BY STATES, 1929

[This table presents statistics for only those States for which figures can be given without disclosing data for individual establishments. The sum of the State items in any column is not, therefore, equal to the United States total at the head of the column. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures]

STATE	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Percent minimum is of maximum
		January	February	March	April	May	June	July	August	September	October	November	December	
PIANOS														
United States:														
1929	9,970	10,628	10,573	10,273	10,032	9,559	9,345	9,220	9,945	10,130	10,626	10,479	8,825	83.0
1925	20,079	20,690	20,457	20,101	19,421	19,183	18,827	18,503	19,426	20,288	21,281	21,623	21,149	85.6
1919	22,957	21,565	22,224	22,882	23,363	23,461	23,954	24,202	24,503	24,719	25,502	21,201	22,483	84.6
1914	23,877	25,168	25,221	25,372	25,270	24,565	23,782	22,497	22,593	22,915	23,130	23,091	23,144	88.3
1909	25,497	24,677	24,914	25,194	25,232	25,316	25,037	24,252	24,925	25,873	26,680	25,921	26,952	90.0
Illinois	2,780	2,896	2,853	2,816	2,731	2,679	2,645	2,653	2,536	2,846	3,017	2,939	2,452	81.3
Indiana	593	441	491	493	508	471	480	599	643	803	813	774	594	54.2
Massachusetts	858	948	897	887	844	777	743	738	790	861	997	1,009	807	73.1
Michigan	572	460	541	563	520	525	571	581	622	609	658	633	575	68.6
New York	3,747	4,185	4,073	3,867	3,856	3,705	3,604	3,379	3,744	3,766	3,830	3,766	3,203	76.5
Wisconsin	70	88	88	84	82	79	73	66	70	66	42	53	57	48.8
ORGANS														
United States:														
1929	2,389	2,487	2,476	2,466	2,409	2,351	2,345	2,372	2,360	2,390	2,367	2,352	2,298	92.4
1925	2,490	2,387	2,378	2,416	2,405	2,417	2,418	2,385	2,417	2,510	2,508	2,587	2,690	88.4
1919	1,941	1,770	1,814	1,854	1,990	1,941	1,951	2,000	1,901	1,937	2,005	2,039	2,111	83.8
1914	3,063	3,191	3,217	3,231	3,194	3,115	3,103	3,077	2,994	2,918	2,920	2,866	2,930	88.7
1909	2,383	2,400	2,291	2,351	2,365	2,394	2,538	2,379	2,359	2,358	2,353	2,415	2,469	95.0
California	107	114	101	109	105	115	116	119	104	165	103	95	97	78.2
Illinois	201	188	191	192	197	193	203	204	207	208	209	209	210	89.5
Massachusetts	303	297	290	310	304	309	301	305	310	305	306	297	264	94.8
New York	122	111	108	110	115	117	122	124	130	132	132	136	128	79.4
Ohio	99	114	109	104	97	92	97	97	95	95	96	102	106	79.8
Pennsylvania	146	156	162	160	152	150	125	143	145	148	143	143	124	76.5
Wisconsin	118	128	128	128	120	118	120	121	116	116	116	110	90	70.3
PIANO AND ORGAN MATERIALS														
United States:														
1929	3,090	3,506	3,434	3,267	3,105	2,901	2,767	2,543	2,982	3,166	3,277	3,298	2,870	72.5
1925	8,018	9,183	8,940	8,919	8,305	8,100	7,929	8,053	8,398	8,681	9,021	9,089	8,875	86.8
1919	11,009	9,709	9,914	10,402	10,903	10,984	11,045	11,816	11,997	11,705	11,227	11,316	11,731	76.1
1914	10,616	11,633	11,712	11,839	11,622	11,035	10,451	9,776	9,789	9,865	9,869	9,858	9,983	82.6
1909	10,140	9,823	9,936	9,975	10,032	9,986	10,030	9,634	9,957	10,291	10,689	10,639	10,569	90.1
Connecticut	534	472	633	620	585	581	503	405	523	519	518	530	533	64.0
Illinois	638	719	675	609	538	502	509	563	612	707	749	754	607	66.6
Massachusetts	195	226	216	203	196	174	167	164	169	201	221	211	190	72.9
New Jersey	216	235	223	201	170	160	164	183	211	250	269	271	249	60.5
New York	992	1,277	1,109	1,039	1,013	983	936	836	937	981	964	988	732	61.2
Pennsylvania	73	74	78	73	75	72	72	72	73	75	74	72	68	89.5
Wisconsin	14	17	17	16	14	15	15	15	15	15	15	15	15	76.5
MUSICAL INSTRUMENTS AND PARTS AND MATERIALS, NOT ELSEWHERE CLASSIFIED														
United States:														
1929	3,176	3,487	3,368	3,202	3,169	3,063	2,972	2,875	3,034	3,124	3,261	3,314	3,174	82.4
1925	4,566	4,529	4,489	4,563	4,529	4,432	4,371	4,569	4,403	4,550	4,718	4,581	4,930	88.7
1919	4,113	3,853	3,966	3,993	4,042	4,005	4,025	4,136	4,117	4,170	4,302	4,363	4,377	88.0
1914	1,831	1,792	1,825	1,845	1,855	1,810	1,805	1,778	1,802	1,812	1,864	1,880	1,910	92.8
1909	1,822	1,749	1,750	1,832	1,851	1,814	1,780	1,781	1,775	1,785	1,875	1,908	1,957	89.4
California	82	77	77	80	81	81	81	82	82	85	83	84	86	89.5
Illinois	696	646	634	626	597	562	546	532	532	563	593	645	589	82.7
Indiana	1,150	1,246	1,201	1,167	1,112	1,083	1,072	1,080	1,147	1,155	1,214	1,206	1,183	80.2
Massachusetts	200	258	253	233	223	193	185	197	199	179	188	182	183	69.4
Michigan	167	176	167	163	165	153	149	141	148	162	167	195	209	67.5
New Jersey	194	208	199	197	198	196	195	187	189	190	193	193	188	89.4
New York	244	299	287	279	269	253	220	201	218	215	217	225	233	67.9
Pennsylvania	52	55	53	53	53	52	52	52	51	51	52	51	53	62.7

OPTICAL GOODS

Description of the industry.—The establishments in this industry are engaged in the manufacture of spectacles, eyeglasses, goggles, frames, and mountings; lenses and prisms; microscopes, telescopes, field glasses, and opera glasses; ophthalmic instruments and apparatus; photomicro and micro-projection apparatus; optical-testing and measuring instruments; artificial human eyes; and glass eyes for the use of furriers and taxidermists. The reports for 1925 and prior years included data for establishments engaged primarily in the manufacture of surveyors', nautical, and similar

instruments, and those for 1923 and prior years included data for establishments engaged in grinding lenses for spectacles and eyeglasses from prescriptions. The first-mentioned establishments have been classified in the "Instruments, professional and scientific" industry at the last two censuses, and the last-mentioned ones have not been canvassed since the census for 1923. It is impracticable to adjust the figures for earlier years so as to make them fairly comparable with those for 1927 and 1929, and therefore no statistics for years prior to 1927 are given in this report.

TABLE 1.—GENERAL STATISTICS, BY STATES: 1929 AND 1927

[This table presents statistics for all States for which separate figures can be given without disclosing data reported by individual establishments. Certain of the "Other States," however, reported larger values of products than some of the States shown separately]

STATE	Census year	Number of establishments	Salaried officers and employees ¹	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products ²	Value added by manufacture ³
					Total	Prime movers	Motors run by purchased energy			Total	Materials and containers	Fuel and purchased energy		
United States.....	1929	117	1,487	9,701	15,628	4,708	10,828	\$4,205,251	\$12,639,947	\$11,869,128	\$11,241,340	\$617,788	\$40,562,459	\$28,703,331
Per cent of increase or decrease (-).....	1927 to 1929	96	1,874	7,696	12,401	3,270	9,131	3,991,845	9,560,725	8,865,025	8,257,067	607,958	32,757,210	23,892,185
		21.9	-20.7	27.7	26.0	46.7	18.6	5.3	32.1	33.8	36.1	1.6	23.8	20.1
California.....	1929	5	11	33	22	-----	22	17,969	58,812	147,702	146,818	884	367,067	219,855
	1927	4	9	12	18	-----	18	10,700	19,702	49,619	48,170	1,449	93,640	44,021
Illinois.....	1929	8	28	67	42	-----	42	75,457	198,816	202,831	198,855	3,978	591,263	388,432
	1927	5	28	122	74	-----	74	86,465	138,747	182,591	170,997	2,594	516,028	333,437
New Jersey.....	1929	14	49	229	194	7	187	162,197	268,523	361,089	352,323	9,366	941,972	580,233
	1927	12	51	267	189	14	175	93,975	388,943	398,990	389,753	9,237	1,151,902	762,012
New York.....	1929	42	660	5,225	8,403	56	8,347	2,055,224	7,532,811	5,048,370	5,198,327	450,043	20,104,462	14,456,092
	1927	37	1,154	3,290	7,263	130	7,123	2,278,851	4,649,792	3,791,273	3,392,127	399,146	13,021,225	9,229,952
Ohio.....	1929	7	14	82	78	-----	78	25,030	116,083	172,362	164,615	7,747	470,865	298,503
	1927	8	94	398	576	-----	576	255,848	456,770	1,005,828	952,170	23,659	2,578,286	1,572,458
Pennsylvania.....	1929	9	70	374	506	-----	506	198,568	396,929	887,713	865,367	22,346	1,980,566	1,092,853
	1927	6	41	437	92	-----	92	132,712	407,220	603,071	594,980	8,091	1,584,034	980,963
Rhode Island.....	1929	5	44	292	98	-----	98	30,503	279,277	887,137	374,423	12,714	960,632	578,495
	1927	27	590	3,230	6,219	1,444	1,477,814	3,094,906	3,717,275	3,808,252	114,023	13,924,520	10,207,245	
Other States.....	1929	24	518	3,289	4,263	3,126	1,137	1,243,293	3,685,335	3,167,702	3,007,230	160,472	15,033,217	11,865,515

¹ Not including proprietors and firm members, as follows: For 1929, 55; 1927, 38. The total numbers of persons engaged—proprietors and firm members, salaried officers and employees, and wage earners—as reported for the industry, are as follows: For 1929, 11,243; 1927, 9,508.

² For 1929, manufacturers' sales (shipments or deliveries); for 1927, production. See GENERAL EXPLANATIONS—Value of Products.

³ Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

⁴ Colorado, 1 establishment; Connecticut, 1; Indiana, 3; Iowa, 1; Kansas, 1; Maryland, 1; Massachusetts, 13; Michigan, 1; Missouri, 1; New Hampshire, 1; Virginia, 1; Washington, 1; Wisconsin, 1.

⁵ Colorado, 1 establishment; Connecticut, 1; Indiana, 2; Massachusetts, 14; Missouri, 1; Ohio, 3; Virginia, 1; Wisconsin, 1.

OPTICAL GOODS

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TABLE 2.—PRODUCTS, BY CLASS, KIND, AND VALUE, FOR THE UNITED STATES: 1929 AND 1927

CLASS AND KIND	1929	1927
1. Optical-goods industry, all products, total value.....	\$40,562,459	\$32,757,210
2. Optical goods and parts.....	39,360,973	32,150,310
3. Other products (not normally belonging to the industry).....	1,192,486	606,900
4. Optical goods and parts made as secondary products in other industries.....	368,198	257,295
Optical goods, all industries, aggregate value (sum of 2 and 4).....	39,738,171	32,407,605
Ophthalmic products, total value.....	29,342,851	28,298,325
Spectacle and eyeglass frames, mountings, and parts, total.....	14,196,798	13,283,980
All-metal.....	7,594,616	9,007,827
Metal and zylonite.....	1,919,396	4,276,153
Zylonite and shell.....	4,682,786	1,032,957
Lenses, total.....	9,557,041	10,057,395
Single-vision.....	4,458,154	4,388,520
Multi-vision (bifocals and trifocals).....	4,463,493	4,635,912
Colored.....	635,394	1,032,957
Goggles, eye protectors, mountings, and parts.....	3,633,076	2,515,455
Accessories (cases, holders, etc.).....	542,270	690,077
Ophthalmic instruments and apparatus.....	690,077	2,441,495
Glass eyes.....	130,557	293,082
Other ophthalmic products ¹	293,082	
Optical instruments and parts, total.....	7,567,897	2,766,807
Photographic and projection lenses and prisms.....	3,320,716	(²)
Optical measuring instruments.....	241,577	(²)
Telescopes and field and opera glasses.....	195,926	(²)
Other optical instruments and parts and accessories ³	3,809,678	(²)
Other optical goods ⁴	2,827,423	1,842,473

TABLE 3.—PRIME MOVERS, MOTORS, GENERATORS, AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY—NUMBER AND RATED CAPACITY OF PRIME MOVERS, ELECTRIC MOTORS, AND GENERATORS, 1929 AND 1927; QUANTITY OF ELECTRIC ENERGY PURCHASED, 1929

TYPE	1929		1927		Per cent distribution of rated horsepower capacity, 1929
	Number	Capacity	Number	Capacity	
Prime movers and electric motors driven by purchased energy, aggregate.....	2,903	Horse-power 15,626	2,220	Horse-power 12,401	100.0
Prime movers, total.....	13	4,798	11	3,270	80.7
Steam, total.....	9	4,417	6	2,898	28.3
Engines.....	6	517	3	590	3.3
Turbines.....	3	3,900	3	2,308	25.0
Internal-combustion engines.....	1	6	2	14	(¹)
Water wheels and water turbines.....	3	375	3	358	2.4
Electric motors driven by purchased energy.....	2,890	10,828	2,209	9,131	69.3
Electric motors, total.....	3,266	13,842	2,529	11,669	100.0
Driven by purchased energy.....	2,890	10,828	2,209	9,131	78.2
Driven by energy generated in establishments reporting.....	376	3,014	320	2,538	21.8
Electric generators.....	9	Kilowatts 3,544	8	Kilowatts 2,625	
Electric energy purchased ²		6,766,304		(¹)	

¹ Readers and simple magnifiers and other ophthalmic products.
² Not shown separately.
³ Microscopes, photomicro and micro-projection apparatus and condensers, range finders and fire-control optical instruments, searchlight mirrors and reflectors, and parts and accessories.
⁴ Optical machinery and tools and glass plates and disks (rough-cut, or molded or pressed).

¹ Less than one-tenth of 1 per cent.
² This item covers the consumption of purchased electric energy for all purposes—power, heat, light, etc.
³ Data incomplete.

TABLE 4.—WAGE EARNERS, BY MONTHS, BY STATES: 1929

(This table presents statistics for only those States for which figures can be given without disclosing data for individual establishments. The sum of the State items in any column is not, therefore, equal to the United States total at the head of the column. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures)

STATE	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum of maximum
		January	February	March	April	May	June	July	August	September	October	November	December	
United States: 1929.....	9,701	9,323	<i>9,561</i>	9,723	9,843	9,781	9,778	9,649	9,542	9,678	9,834	9,801	9,799	94.2
California.....	33	33	<i>33</i>	33	33	33	33	33	33	33	33	<i>33</i>	33	78.1
Illinois.....	67	67	<i>67</i>	67	67	67	67	67	67	67	67	<i>67</i>	67	69.6
New Jersey.....	220	188	<i>196</i>	207	225	235	223	233	241	236	245	252	270	94.7
New York.....	5,225	6,062	<i>5,211</i>	5,296	5,343	5,295	5,268	5,144	5,080	5,152	5,207	5,313	5,268	94.7
Ohio.....	82	79	<i>78</i>	79	79	80	84	83	83	83	84	86	87	92.2
Pennsylvania.....	398	407	<i>405</i>	407	410	406	394	395	392	396	392	396	378	92.2
Rhode Island.....	437	416	<i>425</i>	423	433	441	440	441	428	434	450	455	452	91.4

PAVING MATERIALS: ASPHALT, TAR, CRUSHED SLAG, AND MIXTURES

Description of the industry.—This industry classification covers establishments engaged primarily in the manufacture of asphalt paving blocks, asphalt compounds, asphaltic concrete, emulsified asphalt, coal-tar paving materials, crushed slag, and mixtures of asphalt, crushed stone or slag, lime, sand, kerosene, gasoline, naphtha, and oil. Plants operated by contractors for the mixing of paving materials which they themselves lay on the highways are not included unless they also manufacture paving materials in considerable quantities for sale as such. As this industry was canvassed by means of the "general schedule," it is impossible to compile, from the data collected, any

detailed statistics showing quantities and values of individual classes of products.

Change in classification.—Those establishments formerly classified in the paving-materials industry which were engaged primarily in quarrying and crushing stone were canvassed for 1929 for the Census of Mines and Quarries and not for the Census of Manufactures. For this reason the statistics given in the following tables refer only to establishments engaged primarily in the operations described in the preceding paragraph and are not comparable with those published for the paving-materials industry for earlier census years.

TABLE 1.—GENERAL STATISTICS, BY STATES: 1929¹

[This table presents statistics separately for each State for which figures can be given without disclosing data for individual establishments, and for the remaining States in groups.]

STATE	Number of establishments	Salaried officers and employees ²	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products ³	Value added by manufacture ⁴
				Total	Prime movers	Motors run by purchased energy			Total	Materials	Fuel and purchased energy		
United States.....	126	486	2,375	30,353	8,280	22,113	\$1,336,764	\$3,730,807	\$13,588,502	\$12,752,456	\$836,046	\$29,276,369	\$15,086,867
Individual States:													
California.....	5	9	28	386	---	386	13,516	50,378	444,126	434,441	9,685	768,829	324,703
Illinois.....	10	80	198	2,155	710	1,445	168,022	293,773	899,518	807,549	91,969	2,618,247	1,718,729
Maryland.....	3	11	52	548	---	548	20,881	55,947	280,578	236,380	24,189	638,024	377,446
Massachusetts.....	3	24	113	283	140	143	71,942	199,388	1,480,738	1,453,745	26,993	2,410,416	929,078
Missouri.....	4	11	49	349	310	39	31,065	55,441	265,649	256,581	9,068	491,064	225,415
New Jersey.....	5	44	99	658	100	558	138,132	158,756	344,011	322,737	21,274	1,185,865	841,854
New York.....	10	58	251	2,386	920	1,466	192,029	484,060	1,833,222	1,743,166	90,056	3,589,416	1,756,104
Ohio.....	29	60	570	6,461	1,108	5,353	145,315	902,583	2,923,613	2,741,719	181,894	6,363,477	3,430,864
Pennsylvania.....	27	106	500	9,486	3,848	5,638	327,670	832,171	1,953,082	1,739,961	213,121	4,761,848	2,798,766
Wisconsin.....	3	5	12	105	105	---	12,688	18,512	35,946	34,901	1,045	70,877	34,931
Groups of States:													
Iowa, 1 est.; Minn., 1; Nebr., 1.....	3	9	17	230	80	150	24,320	18,196	131,806	127,353	4,453	223,789	91,983
Other States (Ala., 6 est.; Conn., 2; Del., 1; Fla., 2; Ga., 2; Ky., 3; Mich., 2; N. C., 1; Okla., 1; R. I., 1; W. Va., 3).....	24	69	488	7,346	959	6,387	191,184	653,664	3,016,213	2,853,914	162,299	6,163,517	3,147,304

¹ No comparable data for years prior to 1929.

² Not including proprietors and firm members. The total number of persons engaged, as reported for this industry, was 2,876; number of proprietors and firm members, 15.

³ Figures refer to sales (shipments or deliveries) by manufacturers. See GENERAL EXPLANATIONS—Value of Products.

⁴ Value of products less cost of materials, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

⁵ Includes \$4,479,932, value of miscellaneous products, normally belonging to other industries, made as secondary products by establishments engaged primarily in the manufacture of paving materials. Does not include \$2,823,516, value of paving materials made as secondary products by establishments classified in other industries.

PAVING MATERIALS

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TABLE 2.—PRIME MOVERS, MOTORS, GENERATORS, AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY—NUMBER AND RATED CAPACITY OF PRIME MOVERS, ELECTRIC MOTORS, AND OF GENERATORS; QUANTITY OF ELECTRIC ENERGY PURCHASED: 1929¹

TYPE	1929		PER CENT DISTRIBUTION OF RATED HORSE-POWER CAPACITY, 1929	TYPE	1929		PER CENT DISTRIBUTION OF RATED HORSE-POWER CAPACITY, 1929
	Number	Capacity			Number	Capacity	
Prime movers and electric motors driven by purchased energy, aggregate.....	1,036	<i>Horse-power</i> 30,393	100.0	Electric motors, total.....	937	<i>Horse-power</i> 22,216	100.0
Prime movers, total.....	110	8,280	27.2	Driven by purchased energy.....	926	22,113	99.5
Steam, total.....	102	8,051	26.4	Driven by energy generated in establishments reporting.....	11	103	0.5
Engines.....	100	7,946	26.1	Electric generators.....	4	<i>Kilowatts</i> 196	
Turbines.....	2	105	0.3	Electric energy purchased ²		<i>Kilowatt-hours</i> 12,389,283	
Internal-combustion engines.....	8	229	0.8				
Electric motors driven by purchased energy.....	926	22,113	72.8				

¹ No comparable data for years prior to 1929.

² This item covers the consumption of purchased electric energy for all purposes—power, heat, light, etc.

TABLE 3.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, AND BY STATES, 1929

[This table presents statistics for only those States for which figures can be given without disclosing data for individual establishments. The sum of the State items in any column is not, therefore, equal to the United States total at the head of the column. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italics* figures]

STATE	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent—minimum is of maximum
		January	February	March	April	May	June	July	August	September	October	November	December	
United States: 1929 ¹	2,375	1,816	1,737	1,853	2,295	2,562	2,725	2,739	2,785	2,733	2,754	2,489	2,007	62.4
California.....	28	<i>15</i>	<i>5</i>	<i>5</i>	41	39	48	39	29	30	31	29	29	10.9
Illinois.....	196	<i>101</i>	106	142	181	210	255	265	272	283	219	177	138	35.7
Maryland.....	52	<i>47</i>	<i>47</i>	49	49	54	54	53	50	55	55	56	55	83.9
Massachusetts.....	113	<i>79</i>	<i>79</i>	84	117	142	143	148	133	128	112	109	83	53.4
Missouri.....	49	<i>44</i>	<i>43</i>	42	57	55	53	55	51	51	51	51	39	68.4
New Jersey.....	99	<i>99</i>	<i>97</i>	96	92	100	113	104	108	97	99	99	91	79.6
New York.....	251	<i>167</i>	179	190	243	255	296	321	318	302	281	253	205	52.0
Ohio.....	570	<i>536</i>	474	428	505	594	617	638	645	633	606	596	477	61.5
Pennsylvania.....	500	<i>259</i>	<i>244</i>	304	602	550	577	579	657	636	667	614	409	36.6
Wisconsin.....	12	<i>6</i>	<i>6</i>	<i>6</i>	6	12	13	17	21	21	20	6	6	28.6

¹ No comparable data for years prior to 1929.

PENCILS, LEAD

Description of the industry.—The establishments in the manufacture of complete wooden and mechanical classified in this industry are those engaged primarily | lead pencils, and of pencil holders, leads, and findings.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1929

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers for products, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²	Horsepower
1929.....	38	5,703	\$6,292,276	\$10,756,296	\$27,772,955	\$17,016,659	9,921
1927.....	27	5,301	5,942,783	9,931,493	24,499,839	14,568,346	9,832
1925.....	25	5,636	0,031,305	9,168,525	26,050,757	15,882,232	8,206
1923.....	20	5,826	5,540,474	5,659,173	24,567,504	15,908,331	7,288
1921.....	14	5,134	5,034,899	7,259,881	21,582,050	14,122,189	(3)
1919.....	12	5,970	5,299,059	9,073,663	24,134,159	15,060,696	8,099
1914.....	14	4,330	1,944,376	4,564,000	8,328,418	3,784,418	3,728
1909.....	11	4,134	1,711,881	3,595,633	7,378,744	3,783,111	3,426
1904.....	8	3,095	1,059,076	1,803,534	4,425,896	2,022,362	2,595
1899.....	7	2,162	683,281	1,030,917	2,222,276	1,191,359	1,360
PER CENT OF INCREASE OR DECREASE (—)							
1927-1929.....	(4)	7.6	5.9	8.3	13.4	16.8	0.9
1925-1927.....	(4)	-5.9	-1.5	8.3	-2.2	-8.3	19.8
1923-1925.....	(4)	-3.3	8.9	5.9	2.0	-2	12.6
1921-1923.....	(4)	13.5	10.0	19.3	14.9	12.6	-----
1919-1921.....	(4)	-14.0	-5.0	-20.0	-11.4	-6.2	-----
1919-1929.....	(4)	-4.5	18.7	18.5	15.1	13.0	22.5
1909-1919.....	(4)	44.4	209.5	152.3	227.1	208.1	136.4
1899-1909.....	(4)	91.2	150.6	248.8	232.0	217.5	151.9

¹ For 1929, manufacturers' sales (shipments or deliveries); for earlier years, production. See GENERAL EXPLANATIONS—Value of Products.
² Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.
³ Not called for on schedule.
⁴ Per cent not computed where base is less than 100.

TABLE 2.—GENERAL STATISTICS, BY STATES: 1929

[This table presents statistics separately for each State for which figures can be given without disclosing data for individual establishments, and for the remaining States in groups. Certain of the States for which figures are given in combination with those for others, however, reported larger values of products than some of the States shown separately. See GENERAL EXPLANATIONS—Establishments Covered—Size]

STATE	Census year	Number of establishments	Salaried officers and employees ¹	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products ²	Value added by manufacture ³
					Total	Prime movers	Motors run by purchased energy			Total	Materials and containers	Fuel and purchased energy		
United States.....	1929	38	1,163	5,703	9,921	3,500	6,421	\$3,039,360	\$6,292,276	\$10,756,296	\$10,388,750	\$367,540	\$27,772,955	\$17,016,659
	⁴ 1927	27	980	5,301	9,832	4,855	4,977	2,959,828	5,942,783	9,931,493	9,681,118	350,375	24,499,839	14,568,346
	⁴ 1919	12	743	5,970	8,099	4,663	3,436	1,684,427	5,299,059	9,073,663	8,822,030	251,533	24,134,159	15,060,696
Individual States:														
New Jersey.....	1929	6	370	1,809	4,107	2,425	1,682	1,107,430	2,088,921	4,293,451	4,177,645	115,806	10,457,008	6,163,557
Rhode Island.....	1929	8	51	510	135	-----	135	123,180	307,736	347,139	338,953	8,186	996,053	648,914
Groups of States:														
Ill., 6 est.; Mo., 1; Tenn., 2.....	1929	9	402	1,275	2,095	175	1,920	1,100,905	1,781,094	2,634,872	2,558,164	76,708	7,530,550	4,895,678
Md., 1 est.; N. Y., 7; Pa., 2.....	1929	10	299	1,860	3,144	900	2,244	598,103	2,016,512	3,282,890	3,148,225	134,665	7,983,707	4,700,817
Other States (Calif., 1 est., Ga., 2; Minn., 1; W. Va., 1).....	1929	5	41	249	440	-----	440	109,742	148,013	197,944	165,763	32,181	805,637	607,693

¹ Not including proprietors and firm members, as follows: For 1929, 6; 1927, 5; 1919, none. The total numbers of persons engaged—proprietors and firm members, salaried officers and employees, and wage earners—as reported for the industry, are as follows: For 1929, 6,872; 1927, 6,286; 1919, 6,713.
² For 1929, sales (shipments or deliveries) by manufacturers; for earlier years, production. See GENERAL EXPLANATIONS—Value of Products.
³ Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.
⁴ California, 1 establishment; Georgia, 2; Illinois, 5; Minnesota, 2; Missouri, 1; New Jersey, 5; New York, 4; Pennsylvania, 3; Rhode Island, 2; Tennessee, 1; West Virginia, 1.
⁵ Georgia, 1 establishment; Illinois, 1; Missouri, 1; New Jersey, 5; New York, 2; Pennsylvania, 2.

TABLE 3.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, BY STATES: 1929

[These statistics refer to sales (shipments or deliveries) by manufacturers. See GENERAL EXPLANATIONS—Value of Products. Figures are given for each State which can be shown separately without disclosing data for individual establishments. Certain of the "Other States," however, reported larger quantities and values of mechanical pencils than some of the States shown separately]

KIND	Quantity (gross)	Value	KIND	Quantity (gross)	Value
1. The lead-pencil industry, all products, aggregate value.....		\$27, 772, 955	Lead pencils and lead-pencil parts, all industries—Con- Pencils—Continued.		
2. Lead pencils and lead-pencil parts.....		10, 657, 382	Mechanical pencils, total.....	165, 116	\$4, 885, 874
3. Other products (not normally belonging to the lead-pencil industry), and receipts for custom work and repairing.....		8, 115, 573	By kind—		
4. Lead pencils and lead-pencil parts made as secondary products in other industries, value.....		4, 519, 045	Gold.....	1, 638	258, 121
Lead pencils and lead-pencil parts, all industries: Aggregate value (sum of 2 and 4).....		24, 476, 427	Silver.....	1, 692	164, 695
Pencils, total value.....		22, 490, 592	Plated.....	47, 177	1, 352, 055
Wood pencils, total.....	5, 853, 713	13, 604, 718	Pyroxylin.....	50, 661	4, 282, 553
New Jersey.....	2, 795, 487	7, 277, 017	Other.....	64, 034	2, 829, 059
Other States (Mo., N. Y., Ohio, Pa., Tenn.).....	3, 058, 226	6, 327, 701	By States—		
			Illinois.....	47, 396	2, 708, 186
			Massachusetts ¹	1, 035	237, 842
			New Jersey.....	19, 539	512, 726
			New York.....	41, 293	1, 291, 347
			Rhode Island.....	25, 029	507, 504
			Other States (Calif., Conn., Ga., Iowa, Md., Minn., Mo., ¹ Ohio, ¹ Va., Wis.).....	30, 862	2, 928, 260
			Pencil parts, for sale as such, total value.....		1, 985, 835
			Leads for mechanical pencils.....		989, 064
			Leads for other pencils.....		787, 840
			Other parts (holders and findings).....		208, 931

¹ Figures for these States refer to pencils made as secondary products by establishments classified in other industries.

TABLE 4.—PRIME MOVERS, MOTORS, GENERATORS, AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY—NUMBER AND RATED CAPACITY OF PRIME MOVERS AND ELECTRIC MOTORS, 1929, 1927, 1925, 1919, AND 1914, AND OF GENERATORS, 1929, 1927, AND 1925; QUANTITY OF ELECTRIC ENERGY PURCHASED, 1929

TYPE	1929		1927		1925		1919		1914		PER CENT DIS- TRIBUTION OF RATED HORSE- POWER CAPACITY	
	Number	Horse- power	Number	Horse- power	Number	Horse- power	Number	Horse- power	Number	Horse- power	1929	1919
Prime movers and electric motors driven by purchased energy, aggregate.....	1, 269	9, 921	1, 198	9, 832	728	8, 299	425	8, 099	54	3, 728	100.0	100.0
Prime movers, total.....	13	3, 500	16	4, 855	16	4, 705	18	4, 663	11	3, 255	35.3	57.6
Steam, total.....	12	3, 470	15	4, 825	14	4, 425	16	4, 615	10	3, 225	35.0	57.0
Engines.....	12	3, 470	14	4, 425	13	4, 025	15	4, 215	(1)	(1)	35.0	52.0
Turbines.....	1	490	1	490	1	490	1	490	(2)	(2)		5.0
Internal-combustion engines.....	1	30	1	30	2	280	2	48	1	30	.3	.6
Electric motors driven by purchased energy.....	1, 256	6, 421	1, 182	4, 977	712	3, 504	407	3, 436	43	473	64.7	42.4
Electric motors, total.....	1, 065	10, 772	1, 512	7, 812	992	4, 704	607	6, 117	175	2, 055	100.0	100.0
Driven by purchased energy.....	1, 256	6, 421	1, 182	4, 977	712	3, 504	407	3, 436	43	473	58.6	56.2
Driven by energy generated in estab- lishments reporting.....	409	4, 351	330	2, 835	280	1, 200	200	2, 681	132	1, 582	49.4	43.8
Electric generators.....	8	Kilowatts 1, 833 Kilowatt- hours	11	Kilowatts 3, 610	5	Kilowatts 2, 050	(2)	(2)	(2)	(2)		
Electric energy purchased ³		6, 632, 946		(4)		(4)		(2)		(1)		

¹ Not called for separately on schedule.

² Not called for on schedule.

³ This item covers the consumption of purchased electric energy for all purposes—power, heat, light, etc.

⁴ Data incomplete.

TABLE 5.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1929, 1925, 1919, 1914, AND 1909, AND BY STATES, 1929

[This table presents statistics for only those States for which figures can be given without disclosing data for individual establishments. The sum of the State items in any column is not, therefore, equal to the United States total at the head of the column. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures]

STATE	Average number em- ployed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent mini- mum is of maxi- mum		
		January	Febru- ary	March	April	May	June	July	August	Septem- ber	October	Novem- ber	Decem- ber			
United States:																
1929.....	5, 703	5, 513	5, 650	5, 782	5, 817	5, 786	5, 747	5, 649	5, 798	5, 898	5, 882	5, 715	<i>5, 202</i>	5, 649	5, 602	88.2
1925.....	5, 636	5, 563	5, 662	5, 668	5, 663	5, 712	5, 667	5, 621	5, 539	5, 586	5, 677	5, 728	5, 649	5, 649	5, 649	96.7
1919.....	5, 970	<i>5, 629</i>	5, 695	5, 754	5, 832	5, 957	5, 959	6, 140	6, 156	6, 049	6, 081	6, 192	6, 196	6, 196	6, 196	90.5
1914.....	4, 330	4, 241	4, 366	4, 298	4, 302	4, 418	4, 408	4, 343	4, 313	4, 317	4, 300	4, 348	4, 306	4, 306	4, 306	95.0
1909.....	4, 134	<i>3, 769</i>	3, 803	3, 867	4, 032	4, 076	4, 143	4, 258	4, 250	4, 312	4, 344	4, 361	4, 391	4, 391	4, 391	85.8
New Jersey.....	1, 809	1, 808	1, 825	1, 850	1, 831	1, 793	1, 811	1, 818	1, 802	1, 822	1, 818	1, 809	1, 797	1, 797	1, 797	93.4
Rhode Island.....	510	428	415	468	494	469	487	465	546	594	569	697	457	457	457	59.5

PENS, FOUNTAIN AND STYLOGRAPHIC; PEN POINTS, GOLD, STEEL, AND BRASS

Description of the industry.—This industry embraces those establishments whose principal products fall into one or another of the following classes: Fountain pens, fountain pen desk sets, stylographic pens, and ink pencils; gold, steel, and brass pen points; rubber holders and other parts.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1929

[Data for establishments with products under \$5,000 in value included for 1919 and prior years but not for 1921 and subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers for products, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²	Horsepower
1929	76	4,600	\$5,304,142	\$11,459,411	\$34,211,384	\$22,751,973	4,235
1927	68	4,031	4,734,561	10,374,789	25,045,189	15,270,400	3,721
1925	78	4,203	4,852,547	8,594,651	20,595,734	18,001,083	3,607
1923	73	4,301	4,732,023	9,343,299	23,730,202	14,386,903	3,167
1921	67	3,403	3,729,116	6,424,464	14,976,011	8,551,547	(³)
1919	75	4,430	4,177,191	7,172,212	19,477,800	12,805,597	1,942
1914	72	1,973	1,134,785	2,033,151	8,021,033	5,987,882	1,530
1909	70	1,924	941,825	2,341,720	5,315,380	2,978,669	745
1904	64	1,596	737,920	1,269,446	3,247,881	1,978,435	585
1899	48	1,169	509,124	716,935	1,979,872	1,283,837	534
PER CENT OF INCREASE OR DECREASE (—)							
1927-1929	(⁴)	14.1	12.0	10.5	33.4	49.0	13.8
1925-1927	(⁴)	-4.1	-2.4	20.7	-3.6	-15.2	3.2
1923-1925	(⁴)	-2.3	2.5	-3.0	12.1	25.1	13.9
1921-1923	(⁴)	25.4	26.9	45.4	68.5	68.2	-----
1919-1921	(⁴)	-23.2	-10.7	-10.4	-23.1	-30.5	-----
1919-1929	(⁴)	3.8	27.0	59.8	75.6	84.9	118.1
1909-1919	(⁴)	130.2	343.5	204.3	260.4	313.8	160.7
1899-1909	(⁴)	64.6	85.0	220.6	168.5	131.6	39.5

¹ For 1929, manufacturers' sales (shipments or deliveries); for earlier years, production. See GENERAL EXPLANATIONS—Value of Products.
² Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.
³ Not called for on schedule.
⁴ Per cent not computed where base is less than 100.

TABLE 2.—GENERAL STATISTICS, BY STATES: 1929, 1927, AND 1919

[This table presents statistics separately for each State for which figures can be given without disclosing data for individual establishments. Certain of the "Other States" however, reported larger values of products than some of the States shown separately. Data for establishments with products under \$5,000 in value are included for 1919 but not for subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

STATE	Census year	Number of establishments	Salaried officers and employees ¹	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products ²	Value added by manufacture ³
					Total	Prime movers	Motors run by purchased energy			Total	Materials and containers	Fuel and purchased energy		
United States	1929	76	765	4,600	4,235	947	3,288	\$1,801,916	\$5,304,142	\$11,459,411	\$11,307,029	\$151,782	\$34,211,384	\$22,751,973
	1927	68	749	4,031	3,721	1,473	2,248	1,501,232	4,734,561	10,374,789	10,243,557	131,232	25,045,189	15,270,400
	1919	75	803	4,430	1,942	1,123	819	1,920,355	4,177,191	7,172,212	6,861,064	310,548	19,477,800	12,305,597
Illinois	1929	5	30	248	184	-----	164	68,353	340,536	725,139	715,990	9,149	1,428,001	703,462
	1927	5	13	118	123	-----	123	29,820	154,883	285,405	281,532	3,873	643,055	357,650
Massachusetts	1929	6	33	227	99	-----	99	112,868	279,406	714,550	706,375	8,185	1,398,356	683,796
New Jersey	1929	17	185	1,302	1,065	135	930	456,989	1,062,799	3,157,353	3,101,785	55,568	9,588,783	6,431,430
New York	1929	30	151	656	618	12	606	407,097	879,527	2,164,467	2,141,705	22,762	4,418,999	2,252,532
	1927	29	116	522	447	31	416	290,358	738,140	1,410,122	1,390,182	19,940	2,908,741	1,498,619
	1919	37	303	1,870	458	73	385	807,211	1,597,585	3,630,669	3,606,104	24,565	9,701,647	6,070,978
Other States	⁴ 1929	18	366	2,167	2,289	800	1,489	756,609	2,141,874	4,697,892	4,641,774	56,118	17,378,645	12,680,753
	⁶ 1927	24	620	3,391	3,151	1,442	1,769	1,181,054	3,841,538	8,679,262	8,571,843	107,419	22,093,393	13,414,131
	⁷ 1919	38	506	2,560	1,524	1,050	474	1,113,144	2,579,606	3,541,543	3,255,560	285,983	9,776,162	6,234,619

¹ Not including proprietors and firm members, as follows: For 1929, 37; 1927, 58; 1919, 54. The total numbers of persons engaged—proprietors and firm members, salaried officers and employees, and wage earners—as reported for the industry, are as follows: For 1929, 5,402; 1927, 4,838; 1919, 5,287.
² For 1929, sales (shipments or deliveries) by manufacturers; for earlier years, production. See GENERAL EXPLANATIONS—Value of Products.
³ Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.
⁴ Data for purchased power other than electric (power transmitted into the plant by belt or shaft) are included in the State items for 1919 but not in the United States totals.
⁵ Alabama, 1 establishment; Connecticut, 2; Indiana, 1; Iowa, 1; Missouri, 1; Ohio, 5; Pennsylvania, 2; Rhode Island, 1; Utah, 1; Virginia, 1; Wisconsin, 2.
⁶ Alabama, 1 establishment; Connecticut, 3; Iowa, 1; Massachusetts, 6; Michigan, 1; Missouri, 1; New Jersey, 9; Ohio, 6; Pennsylvania, 1; Rhode Island, 1; Virginia, 1; Wisconsin, 2.
⁷ California, 1 establishment; Connecticut, 1; Illinois, 5; Iowa, 4; Maryland, 1; Massachusetts, 5; Michigan, 1; Missouri, 1; New Jersey, 9; Ohio, 5; Pennsylvania, 3; Wisconsin, 2.

PENS, FOUNTAIN AND STYLOGRAPHIC, ETC,

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TABLE 3.—PRODUCTS, BY CLASS, QUANTITY, AND VALUE, BY STATES: 1929

[These statistics refer to sales (shipments or deliveries) by manufacturers. See GENERAL EXPLANATIONS—Value of Products. Figures are given for each State which can be shown separately without disclosing data for individual establishments. Certain of the "Other States," however, reported larger quantities and values of pens than some of the States shown separately]

CLASS	Quantity (gross)	Value	CLASS	Quantity (gross)	Value
1. Pen industry, all products, aggregate value.....		\$34,211,384	Pens, fountain-pen desk sets, pen points, and pen parts—Con-		
2. Pens, fountain-pen desk sets, pen points, and pen parts.....		20,524,887	Pens—Continued.		
3. Other products (not normally belonging to the pen industry) and receipts for custom work and repairing.....		7,680,497	By States—		
4. Pens, pen points, etc., made as secondary products in other industries, value.....		2,710,282	Illinois.....	13,595	\$2,846,003
			Massachusetts.....	2,401	786,944
			New Jersey.....	22,828	5,756,711
			New York.....	18,935	1,963,270
			Other States (Ala., Conn., Ind., Iowa, Mo., Ohio, Pa., R. I., Utah, Va., Wis.).....	41,295	11,315,458
Pens, fountain-pen desk sets, pen points, and pen parts, all industries:			Fountain-pen desk sets.....	2,734	2,377,343
Aggregate value (sum of 2 and 4).....		29,235,169	Pen points, total.....	2,044,624	3,081,324
Pens, total ¹	99,354	22,068,386	By Class—		
By class—			Gold ²	37,439	1,782,016
Fountain pens.....	97,409	22,383,608	Steel and brass ³	2,007,185	1,298,408
Stylographic pens.....	1,945	284,688	By States—		
			New Jersey.....	1,475,192	1,637,533
			New York.....	450,169	1,108,424
			Other States (Conn., Ill., Mass., Mo., Ohio, Pa., Va.).....	110,263	335,367
			Pen parts, for sale as such, value.....		1,108,116

¹ Value reported for 1927, \$19,252,815; for 1925, \$23,992,273. Data on quantity incomplete for those years.
² Value reported for 1927, \$1,205,451; for 1925, \$1,144,823. Data on quantity incomplete for those years.
³ Value reported for 1927, \$1,321,157; for 1925, \$1,318,230. Data on quantity incomplete for those years.

TABLE 4.—PRIME MOVERS, MOTORS, GENERATORS, AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY—NUMBER AND RATED CAPACITY OF PRIME MOVERS AND ELECTRIC MOTORS, 1929, 1927, 1925, 1919, AND 1914, AND OF GENERATORS, 1929, 1927, AND 1925; QUANTITY OF ELECTRIC ENERGY PURCHASED, 1929

TYPE	1929		1927		1925		1919		1914		PER CENT DISTRIBUTION OF RATED HORSE-POWER CAPACITY	
	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	1929	1919
		Horse-power		Horse-power		Horse-power		Horse-power		Horse-power		
Prime movers and electric motors driven by purchased energy, aggregate.....	1,322	4,235	684	3,721	614	3,607	425	1,942	249	1,589	100.0	100.0
Prime movers, total.....	8	947	14	1,473	68	1,712	18	1,123	17	746	22.4	57.8
Steam, total.....	4	735	6	1,222	61	1,449	6	922	4	540	17.4	47.5
Engines.....	3	435	5	922	60	1,149	5	602	(1)	(1)	10.3	31.0
Turbines.....	1	300	1	300	1	300	1	320	(1)	(1)	7.1	16.5
Internal-combustion engines.....	1	12	5	51	4	43	10	101	11	106	.3	5.2
Water wheels and water turbines.....	3	200	3	200	3	220	2	100	2	100	4.7	5.1
Electric motors driven by purchased energy.....	1,314	3,288	670	2,248	546	1,895	407	819	232	793	77.6	42.2
Electric motors, total.....	1,507	4,106	1,009	3,611	871	3,610	486	1,451	233	801	100.0	100.0
Driven by purchased energy.....	1,314	3,288	670	2,248	546	1,895	407	819	232	793	80.1	56.4
Driven by energy generated in establishments reporting.....	193	818	339	1,363	325	1,715	79	632	1	8	19.9	43.6
Electric generators.....	7	Kilowatts 614	9	Kilowatts 1,006	8	Kilowatts 1,076	(?)	(?)	(?)	(?)		
Electric energy purchased ¹		Kilowatt-hours 3,723,667		(?)		(?)		(?)		(?)		

¹ Not called for separately on schedule.
² Not called for on schedule.
³ This item covers the consumption of purchased electric energy for all purposes—power, heat, light, etc.
⁴ Data incomplete.

TABLE 5.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1929, 1925, 1919, 1914, AND 1909, AND BY STATES, 1929

[This table presents statistics for only those States for which figures can be given without disclosing data for individual establishments. The sum of the State items in any column is not, therefore, equal to the United States total at the head of the column. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures]

STATE	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum	
		January	February	March	April	May	June	July	August	September	October	November	December		
		United States:													
1929.....	4,600	4,298	4,331	4,389	4,340	4,375	4,356	4,394	4,623	5,028	5,183	5,080	4,801	4,801	82.9
1925.....	4,203	4,098	4,163	4,168	4,105	4,081	4,053	3,787	3,970	4,224	4,520	4,649	4,615	4,615	81.5
1919.....	4,430	4,241	<i>4,200</i>	4,393	4,489	4,470	4,520	4,487	4,570	4,212	4,298	4,498	4,773	4,773	88.2
1914.....	1,973	2,037	2,012	1,986	1,996	1,979	1,955	1,963	1,954	1,954	1,955	1,960	1,962	1,962	93.4
1909.....	1,924	<i>1,843</i>	1,924	1,925	1,914	1,904	1,877	1,900	1,887	1,951	1,951	1,953	1,997	1,997	92.3
Illinois.....	248	105	187	208	215	232	245	245	259	295	298	327	277	277	57.2
Massachusetts.....	227	222	218	218	220	228	224	226	233	244	252	236	209	209	80.6
New Jersey.....	1,302	1,265	1,310	1,311	1,310	1,293	1,281	1,271	1,290	1,334	1,348	1,342	1,339	1,339	91.4
New York.....	656	651	655	653	631	620	679	685	612	715	748	725	691	691	77.6

PHONOGRAPHS

Description of the industry.—This industry embraces establishments engaged primarily in the manufacture of machines for recording and reproducing speech, music, and other sounds, and of parts and accessories for such machines. The parts and accessories include records, blanks, and cabinets, as well as constituent parts of the machines themselves.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1929

[Data for establishments with products under \$5,000 in value included for 1919 and prior years but not for 1921 and subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²	Horsepower
1929.....	59	14,416	\$17,825,855	\$37,323,137	\$96,840,048	\$59,525,911	38,483
1927.....	60	14,216	20,176,208	37,467,711	95,290,137	57,828,426	48,507
1924.....	68	11,267	14,144,955	24,847,094	61,057,147	36,210,053	45,782
1923.....	111	20,491	24,969,685	45,250,327	107,311,265	62,060,938	41,100
1921.....	154	17,938	21,773,750	41,057,508	98,212,784	57,155,276	(*)
1919.....	166	28,721	33,963,148	59,740,205	158,547,870	98,807,665	40,103
1914.....	18	9,381	6,341,495	7,048,040	27,115,916	20,067,876	11,688
1909.....	18	5,190	2,840,503	3,099,391	11,725,906	8,626,605	6,331
1904.....	14	3,367	1,683,903	4,161,136	10,237,075	6,075,939	2,097
1899.....	11	1,267	608,490	827,529	2,246,274	1,418,745	1,063
PER CENT OF INCREASE OR DECREASE (-)							
1927-1929.....	(*)	1.4	-11.6	-0.4	1.6	2.9	-20.7
1924-1927.....	(*)	26.2	42.6	50.8	56.1	59.7	6.0
1923-1925.....	-38.7	-45.0	-43.4	-45.1	-43.1	-41.7	11.2
1921-1923.....	-27.9	14.2	14.7	10.2	0.3	8.6	-----
1919-1921.....	-7.2	-37.5	-35.9	-31.3	-38.1	-42.2	-----
1919-1929.....	-64.5	-49.8	-47.5	-37.5	-38.9	-39.8	-4.2
1909-1919.....	(*)	452.4	1,095.7	1,827.5	1,252.1	1,045.4	534.4
1899-1909.....	(*)	310.3	366.8	274.6	422.0	508.0	495.0

¹ For 1929, manufacturers' sales (shipments or deliveries); for earlier years, production. See GENERAL EXPLANATIONS—Value of Products.

² Value of products less cost of materials, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

³ Not called for on schedule.

⁴ Per cent not computed where base is less than 100.

PHONOGRAPHS

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TABLE 2.—GENERAL STATISTICS, BY STATES: 1929, 1927, AND 1919

[This table presents statistics separately for each State for which figures can be given without disclosing data for individual establishments, and for the remaining States in groups. Data for establishments with products under \$5,000 in value are included for 1919 but not for subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

STATE	Con- sus year	Num- ber of estab- lish- ments	Sala- ried offi- cers and em- ploy- ees ¹	Wage earn- ers (av- er- age for the year)	HORSEPOWER (RATED CA- PACITY OF POWER EQUIP- MENT)			Salaries	Wages	COST OF MATERIALS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products ²	Value added by manu- facture ³
					Total	Prime movers	Motors run by pur- chased energy			Total	Materials	Fuel and purchased energy		
United States.....	1929	59	2,278	14,416	38,483	27,445	11,038	\$4,447,058	\$17,825,855	\$37,323,137	\$36,554,096	\$738,441	\$96,849,048	\$59,525,911
	1927	60	2,123	14,216	48,507	38,409	10,098	4,636,643	20,176,208	37,467,711	35,781,472	1,686,239	95,296,137	57,828,420
	1919	166	5,062	28,721	40,163	22,514	17,049	8,687,568	33,968,148	69,740,205	65,223,578	1,516,627	158,547,870	98,907,665
Individual States:														
Illinois.....	1929	11	54	299	459	-----	459	201,254	437,345	1,316,664	1,298,842	17,822	3,420,115	2,103,451
	1927	12	74	660	1,169	80	1,089	171,615	1,030,962	1,444,102	1,397,665	46,437	3,538,468	2,094,361
	1919	36	204	1,919	1,873	250	1,623	654,061	2,210,993	7,099,258	7,007,723	88,535	12,841,682	5,745,424
Massachusetts.....	1929	3	53	343	766	-----	766	105,415	459,757	432,848	385,416	47,432	1,846,045	1,413,197
	1927	3	33	250	512	-----	512	109,456	293,943	309,211	281,609	27,602	1,256,768	947,557
	1919	12	42	300	254	65	189	134,442	339,696	1,061,844	1,043,463	18,881	1,795,187	733,343
New York.....	1929	8	89	508	732	65	667	246,235	690,371	1,266,560	1,206,081	60,479	3,027,670	1,761,110
	1927	32	519	1,876	2,412	1,172	1,240	581,764	2,091,094	9,052,797	8,934,855	117,942	16,551,523	7,498,726
	1919	3	39	193	382	250	132	127,987	212,699	916,533	903,647	12,886	1,524,742	698,209
Wisconsin.....	1929	3	86	339	465	275	190	191,575	398,793	1,850,426	1,823,020	27,406	3,195,838	1,845,412
	1919	9	120	898	1,046	725	321	266,071	939,276	1,845,465	1,815,877	29,588	3,861,727	2,016,262
Group of States:														
Conn., 5 est.; Ind., 3; N. J., 8; Ohio, 1; Pa., 3; R. I., 1	1929	21	1,981	12,287	32,502	26,900	5,602	3,700,991	15,168,670	30,328,827	29,752,840	675,987	79,415,458	49,036,631
Other States (Calif., 5 est.; Mich., 2; Minn., 1; Nebr., 1)	1929	9	100	694	4,120	230	3,800	176,909	1,212,688	3,266,421	3,200,488	65,933	8,847,501	5,581,080
States not shown sepa- rately.....	1927	34	1,846	12,460	45,629	37,989	7,640	3,967,362	17,862,139	32,597,412	31,073,097	1,524,315	84,277,398	51,679,986
	1919	39	4,129	24,028	34,837	20,367	14,470	6,885,652	28,721,785	41,745,635	40,465,123	1,280,562	125,292,938	83,547,253

¹ Not including proprietors and firm members, as follows: For 1929, 4; 1927, 14; 1919, 43. The total numbers of persons engaged—proprietors and firm members, sala-ried officers and employees, and wage earners—as reported for the industry, are as follows: For 1929, 16,668; 1927, 16,358; 1919, 33,826.

² For 1929, manufacturers' sales (shipments or deliveries); for earlier years, production. See GENERAL EXPLANATIONS—Value of Products.

³ Value of products less cost of materials, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

⁴ Data for purchased power other than electric (power transmitted into the plant by belt or shaft) are included in the State items for 1919 but not in the United States totals.

⁵ California, 2 establishments; Connecticut, 6; Indiana, 5; Iowa, 2; Maryland, 1; Michigan, 2; Minnesota, 1; Missouri, 1; New Jersey, 9; Ohio, 2; Pennsylvania, 4.

⁶ California, 2 establishments; Connecticut, 3; Indiana, 13; Iowa, 2; Massachusetts, 2; Michigan, 10; Minnesota, 4; Missouri, 2; Montana, 1; New Jersey, 15; North Carolina, 2; Ohio, 20; Oregon, 2; Pennsylvania, 8; Rhode Island, 1; Tennessee, 1; Virginia, 1.

TABLE 3.—PRODUCTS, BY CLASS, NUMBER, AND VALUE, FOR THE UNITED STATES: 1923 TO 1929

[The figures for 1929 refer to sales (shipments or deliveries) by manufacturers; those for earlier years represent production. See GENERAL EXPLANATIONS—Value of Products]

CLASS	1929	1927	1925	1923
1. Phonograph industry, all products, total value.....	\$96,849,048	\$95,296,137	\$61,067,147	\$107,311,265
2. Phonographs (including dictating machines), combination phonographs and radios, and parts and accessories.....	77,709,040	91,134,640	55,725,684	105,511,324
3. Other products (not normally belonging to the industry) and receipts for custom work and repairing.....	19,140,008	4,161,497	5,331,463	1,799,941
4. Phonographs and parts and accessories made as secondary products in other industries, value.....	8,888,404	3,089,298	3,603,378	1,801,787
Phonographs (including dictating machines), combination phonographs and radios, and parts and accessories, all industries: Aggregate value (sum of 2 and 4).....	\$86,597,444	\$94,223,938	\$59,329,062	\$106,813,111
Phonographs (including dictating machines)— Number.....	603,273			
Value.....	\$20,833,621	1,046,387	642,615	997,459
Combination phonographs and radios— Number.....	152,107	\$40,242,176	\$22,613,909	\$57,037,080
Value.....	\$22,193,702			
Parts and accessories for sale as such, total value.....	\$43,570,721	\$41,892,470	\$33,111,775	\$48,474,264
Records and blanks 1— Number.....	165,685,042	105,701,302	82,125,066	92,555,673
Value.....	\$34,128,735	\$31,781,443	\$26,796,847	\$36,372,410
Needles, value.....	\$1,971,774	\$1,321,729	\$960,831	\$1,464,964
Phonograph cabinets, value ²	\$786,358	\$2,616,639	\$2,816,718	\$2,544,208
Other parts and accessories, value.....	\$6,683,854	\$6,773,259	\$2,543,379	\$8,092,682
Phonographs and parts, not reported in detail, value.....		\$3,069,298	\$3,603,378	\$1,301,787

¹ The figures for cylinder records and blanks are combined with those for disk records and blanks in order to avoid disclosing data for individual establishments.

² Disk records only.

³ The figures here given relate only to cabinets made for sale as such by establishments engaged primarily in the manufacture of phonographs. Phonograph cabinets are also made to some extent by establishments classified in the furniture industry. The value of such cabinets can not be given, however, since they are not in all cases separately reported by the manufacturers.

CENSUS OF MANUFACTURES: 1929

TABLE 4.—PRIME MOVERS, MOTORS, GENERATORS, AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY—NUMBER AND RATED CAPACITY OF PRIME MOVERS AND ELECTRIC MOTORS, 1929, 1927, 1925, 1919, AND 1914, AND OF GENERATORS, 1929, 1927, AND 1925; QUANTITY OF ELECTRIC ENERGY PURCHASED, 1929

TYPE	1929		1927		1925		1919		1914		PER CENT DISTRIBUTION OF RATED HORSEPOWER CAPACITY	
	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	1929	1919
Prime movers and electric motors driven by purchased energy, aggregate.....	1,364	Horse-power 38,483	1,272	Horse-power 48,567	1,190	Horse-power 45,782	2,450	Horse-power 40,103	143	Horse-power 11,688	100.0	100.0
Prime movers, total.....	31	27,445	35	38,409	41	34,731	64	22,514	22	9,975	71.8	56.1
Steam, total.....	29	27,220	32	38,250	37	34,590	54	21,973	20	9,865	70.7	54.7
Engines.....	19	4,485	22	9,885	28	12,255	46	9,684	(1)	(1)	11.7	24.1
Turbines.....	10	22,735	10	28,365	9	22,335	8	12,280	(1)	(1)	59.1	30.6
Internal-combustion engines.....	2	225	2	9	3	16	8	366	2	110	0.6	0.9
Water wheels and water turbines.....			1	160	1	125	2	175				0.4
Electric motors driven by purchased energy.....	1,333	11,038	1,237	16,098	1,155	11,051	2,392	17,649	121	1,713	28.7	43.9
Electric motors, total.....	5,226	43,145	3,245	37,138	4,183	43,024	8,641	32,193	574	7,400	100.00	100.0
Driven by purchased energy.....	1,333	11,038	1,237	10,098	1,155	11,051	2,392	17,649	121	1,713	25.6	54.8
Driven by energy generated in establishments reporting.....	3,893	32,107	3,008	27,040	3,028	31,973	1,249	14,544	453	5,687	74.4	45.2
Electric generators.....	29	Kilowatts 15,802 Kilowatt-hours	26	Kilowatts 25,595	28	Kilowatts 16,790	(?)	(?)	(?)	(?)		
Electric energy purchased ¹		10,753,764		(?)		(?)		(?)		(?)		

¹ Not called for separately on schedule.
² Not called for on schedule.
³ This item covers the consumption of purchased electric energy for all purposes—power, heat, light, etc.
⁴ Data incomplete.

TABLE 5.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1929, 1925, 1919, 1914, AND 1909, AND BY STATES, 1929

[This table presents statistics for only those States for which figures can be given without disclosing data for individual establishments. The sum of the State items in any column is not, therefore, equal to the United States total at the head of the column. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures]

STATE	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum
		January	February	March	April	May	June	July	August	September	October	November	December	
United States:														
1929.....	14,416	13,286	<i>11,538</i>	11,345	11,945	13,550	13,907	15,343	17,379	17,919	18,717	15,072	13,285	60.6
1925.....	11,267	11,604	11,035	10,113	9,110	8,514	8,433	8,762	10,583	12,656	13,847	14,856	15,648	54.2
1919.....	28,721	23,927	25,642	26,754	27,581	28,269	29,601	24,021	24,369	31,248	33,334	34,656	35,180	68.2
1914.....	9,381	9,276	9,050	9,413	9,441	9,617	9,177	9,523	9,673	<i>8,743</i>	9,017	9,635	10,007	87.4
1909.....	5,199	6,524	5,609	5,527	5,510	5,029	4,538	4,426	4,440	<i>4,409</i>	4,929	5,478	5,899	67.6
Illinois.....	299	323	314	308	296	298	293	290	<i>267</i>	269	307	310	307	82.7
Massachusetts.....	343	405	415	486	309	318	319	318	317	<i>305</i>	321	320	321	70.0
New York.....	300	342	311	292	276	260	256	200	<i>248</i>	291	304	407	358	60.9
Wisconsin.....	193	155	<i>154</i>	179	203	215	223	207	209	202	212	197	157	69.1

PHOTOGRAPHIC APPARATUS AND MATERIALS

Description of the industry.—The establishments classified in this industry are engaged primarily in the manufacture of cameras, motion-picture machines, photostat machines, and blue-printing machines; flash-light apparatus and materials; tripods, plate holders, film rewinders and reels, and developing tanks; sensi-

tized paper and cloth; dry plates and films; lantern and stereopticon slides; and sheet gelatin.

Omission of State statistics.—In order to avoid disclosing an approximation of the data reported by individual establishments, no State statistics are published for this industry.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1929

[Data for establishments with products under \$5,000 in value included for 1919 and prior years but not for 1921 and subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers for products, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²	Horsepower ³
1929	115	12,967	\$20,507,499	\$30,392,531	\$102,827,386	\$72,434,855	31,904
1927	122	12,120	18,310,692	29,020,235	90,827,737	61,807,502	24,838
1925	118	9,154	13,300,269	25,779,218	78,653,651	52,874,433	22,860
1923	111	9,905	13,224,381	19,253,149	71,828,028	52,874,879	34,791
1921	136	10,690	13,771,145	22,835,741	70,595,344	47,759,303	(¹) 24,610
1919	187	13,465	14,900,237	33,806,708	88,393,022	54,586,314	16,439
1914	146	8,674	8,545,304	11,539,381	39,041,526	27,502,145	8,510
1909	103	5,195	3,037,077	6,707,032	22,851,341	15,553,709	4,719
1904	130	3,812	1,795,215	4,161,530	13,023,267	8,561,767	3,213
1899	153	3,444	1,442,848	3,378,210	7,799,388	4,421,178	
PER CENT OF INCREASE OR DECREASE (-)							
1927-1929	-5.7	7.0	12.0	4.7	13.2	17.2	28.4
1925-1927	3.4	32.4	37.7	12.6	15.6	16.9	8.6
1923-1925	0.3	-7.6	0.6	33.9	9.5	0.6	-34.3
1921-1923	-18.4	-7.3	-4.0	-15.7	1.7	10.1	
1919-1921	-27.3	-20.6	-7.6	-32.5	-20.1	-12.5	
1919-1929	-38.5	-3.7	37.6	-10.1	16.3	32.7	29.6
1909-1919	81.6	159.2	390.6	404.0	291.8	244.3	189.2
1899-1909	-32.7	50.8	110.5	98.6	189.3	258.6	184.9

¹ For 1929, manufacturers' sales (shipments or deliveries); for earlier years, production. See GENERAL EXPLANATIONS—Value of Products.
² Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.
³ Not called for on schedule.

TABLE 2.—GENERAL STATISTICS, FOR THE UNITED STATES: 1929, 1927, AND 1919

YEAR OR PERIOD	Number of establishments	Salaried officers and employees ¹	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products ²	Value added by manufacture ³
				Total	Prime movers	Motors run by purchased energy			Total	Materials and containers	Fuel and purchased energy		
1929	115	3,335	12,967	31,904	20,115	11,789	\$7,863,176	\$20,507,499	\$30,392,531	\$29,079,325	\$1,313,206	\$102,827,386	\$72,434,855
1927	122	3,084	12,120	24,838	14,856	9,982	6,855,724	18,310,692	29,020,235	27,604,244	1,415,991	90,827,737	61,807,502
1919	187	2,835	13,465	24,610	12,395	12,215	4,578,229	14,900,237	33,806,708	32,895,662	910,746	88,393,022	54,586,314

¹ Not including proprietors and firm members, as follows: For 1929, 58; 1927, 62; 1919, 93. The total numbers of persons engaged—proprietors and firm members, salaried officers and employees, and wage earners—as reported for the industry, are as follows: For 1929, 16,360; 1927, 15,266; 1919, 16,393.
² For 1929, manufacturers' sales (shipments or deliveries); for earlier years production. See GENERAL EXPLANATIONS—Value of Products.
³ Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.
⁴ California, 11 establishments; Illinois, 3; Iowa, 2; Massachusetts, 4; Michigan, 3; Minnesota, 4; Missouri, 8; New Jersey, 1; New York, 35; Ohio, 5; Oregon, 1; Pennsylvania, 14; Washington, 2; Wisconsin, 1.

CENSUS OF MANUFACTURES: 1929

TABLE 3.—PRIME MOVERS, MOTORS, GENERATORS, AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY—NUMBER AND RATED CAPACITY OF PRIME MOVERS, ELECTRIC MOTORS, AND GENERATORS, 1929, 1927, AND 1925; QUANTITY OF ELECTRIC ENERGY PURCHASED, 1929

TYPE	1929		1927		1925		Per cent distribution of rated horsepower capacity, 1929
	Number	Capacity	Number	Capacity	Number	Capacity	
Prime movers and electric motors driven by purchased energy, aggregate.....	3,149	<i>Horsepower</i> 31,904	2,776	<i>Horsepower</i> 24,838	2,123	<i>Horsepower</i> 22,866	100.0
Prime movers, total.....	26	20,115	40	14,856	51	14,167	68.0
Steam, total.....	26	20,115	40	14,856	49	13,867	68.0
Engines.....	21	4,655	35	5,406	45	5,932	14.6
Turbines.....	5	15,460	5	9,450	4	7,935	48.5
Water wheels and water turbines.....					2	300	
Electric motors driven by purchased energy.....	3,123	11,789	2,736	9,982	2,072	8,699	37.0
Electric motors, total.....	8,403	47,252	7,830	41,924	6,577	35,083	100.0
Driven by purchased energy.....	3,123	11,789	2,736	9,982	2,072	8,699	24.9
Driven by energy generated in establishments reporting.....	5,280	35,463	5,094	31,942	4,505	26,384	75.1
Electric generators.....	18	<i>Kilowatts</i> 14,503 <i>Kilowatt-hours</i> 34,853,145	21	<i>Kilowatts</i> 9,958	14	<i>Kilowatts</i> 9,554	
Electric energy purchased ¹				(?)		(?)	

¹ This item covers the consumption of purchased electric energy for all purposes—power, heat, light, etc.
² Data incomplete.

TABLE 4.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES: 1929 AND 1925

[The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures]

STATE	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum	
		January	February	March	April	May	June	July	August	September	October	November	December		
United States:															
1929.....	12,967	11,600	11,858	12,156	12,637	12,641	12,877	13,066	13,087	13,246	13,970	14,318	14,154	81.0	
1925.....	9,154	<i>8,964</i>	9,074	9,227	9,340	9,358	9,321	8,940	8,778	8,923	9,198	9,354	9,425	92.5	

PIPES (TOBACCO)

Description of the industry.—The establishments classified in this industry are engaged primarily in the manufacture of tobacco pipes from brier, meerschaum, composition, corn cobs, and clay, with mouthpieces of amber, rubber, celluloid, ivory, and other materials.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1929

[Data for establishments with products under \$5,000 in value included for 1919 and prior years but not for 1921 and subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers for products, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²	Horsepower
1929	24	1,680	\$1,961,020	\$1,749,222	\$5,557,982	\$3,808,760	2,276
1927	23	1,807	2,278,537	2,722,706	7,273,806	4,551,100	1,928
1925	28	1,970	2,290,769	2,718,135	7,298,595	4,580,460	2,052
1923	30	2,402	2,720,218	3,827,927	9,704,816	5,876,889	2,354
1921	36	1,765	1,937,697	2,825,856	7,123,810	4,297,954	(³)
1919	56	2,539	2,555,291	3,497,414	11,553,777	8,056,363	2,001
1914	47	2,354	1,188,411	2,308,246	4,220,084	1,911,838	1,641
1909	62	2,775	1,254,842	2,458,655	5,311,900	2,853,245	1,329
1904	68	1,947	830,801	1,354,348	2,834,496	1,480,148	783
1899	98	1,585	737,647	1,106,299	2,471,908	1,365,609	567
PER CENT OF INCREASE OR DECREASE (—)							
1927-1929	(⁴)	-7.0	-13.9	-35.8	-23.6	-16.3	18.0
1925-1927	(⁴)	-8.3	-0.5	0.2	-0.3	-0.6	-6.0
1923-1925	(⁴)	-18.0	-15.8	-29.0	-24.8	-22.1	-12.8
1921-1923	(⁴)	36.1	40.4	35.5	36.2	34.7	
1919-1921	(⁴)	-30.6	-24.2	-19.2	-38.3	-46.7	
1919-1929	(⁴)	-33.8	-23.3	-50.0	-51.9	-52.7	13.7
1909-1919	(⁴)	-8.5	103.0	42.2	117.5	182.4	50.6
1899-1909	(⁴)	75.1	70.1	122.2	114.9	108.9	138.6

¹ For 1929, manufacturers' sales (shipments or deliveries); for earlier years, production. See GENERAL EXPLANATIONS—Value of Products.
² Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.
³ Not called for on schedule.
⁴ Per cent not computed where base is less than 100.

TABLE 2.—GENERAL STATISTICS, BY STATES: 1929, 1927, AND 1919

[This table presents statistics for the only two States for which separate figures can be given without disclosing data for individual establishments. Certain of the "Other States," however, reported larger values of products than Missouri. Data for establishments with products under \$5,000 in value are included for 1919 but not for subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

STATE	Census year	Number of establishments	Salaried officers and employees ¹	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products ²	Value added by manufacture ³
					Total	Prime movers	Motors run by purchased energy			Total	Materials and containers	Fuel and purchased energy		
United States	1929	24	257	1,680	2,276	436	1,840	\$618,778	\$1,961,020	\$1,749,222	\$1,679,838	\$69,384	\$5,557,982	\$3,808,760
	1927	23	210	1,807	1,928	519	1,409	485,706	2,278,537	2,722,706	2,663,066	59,640	7,273,806	4,551,100
	1919	56	309	2,539	2,001	749	1,252	993,924	2,555,291	3,497,414	3,385,289	112,125	11,553,777	8,056,363
Missouri	1929	7	20	231	327	220	107	46,335	162,290	218,334	209,898	8,436	569,964	342,630
	1927	7	23	295	393	220	143	51,603	190,760	268,749	256,779	11,970	638,834	370,685
	1919	7	26	387	384	225	159	66,676	239,036	377,401	366,013	11,358	943,340	563,939
New York	1929	12	177	938	1,583	200	1,383	418,294	1,187,623	1,048,101	1,004,069	44,032	3,261,909	2,213,808
	1927	11	141	1,033	1,246	200	1,046	330,800	1,370,289	1,709,559	1,738,210	31,349	4,204,340	2,434,787
	1919	31	242	1,839	1,145	282	863	808,504	2,001,345	2,646,023	2,565,388	80,635	9,448,718	6,802,695
Other States	⁴ 1929	5	60	511	366	16	350	154,149	611,107	482,787	465,871	16,916	1,735,109	1,252,322
	⁵ 1927	5	46	479	319	99	220	103,303	717,488	684,308	688,077	16,321	2,430,620	1,746,228
	⁶ 1919	18	41	313	472	242	230	118,444	314,910	473,990	453,888	20,102	1,161,719	687,729

¹ Not including proprietors and firm members, as follows: For 1929, 11; 1927, 17; 1919, 54. The total numbers of persons engaged—proprietors and firm members, salaried officers and employees, and wage earners—as reported for the industry, are as follows: For 1929, 1,948; 1927, 2,034; 1919, 2,992.
² The figures for 1929 refer to sales (shipments or deliveries) by manufacturers; those for earlier years represent production. See GENERAL EXPLANATIONS—Value of Products.
³ Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.
⁴ Arkansas, 1 establishment; Illinois, 1; Massachusetts, 2; New Jersey, 1.
⁵ Illinois, 1 establishment; Massachusetts, 2; New Jersey, 1; Virginia, 1.
⁶ Illinois, 5 establishments; Massachusetts, 2; Michigan, 1; Nebraska, 1; New Jersey, 4; Pennsylvania, 2; Virginia, 2; Wisconsin, 1.

CENSUS OF MANUFACTURES: 1929

TABLE 3.—PRIME MOVERS, MOTORS, GENERATORS, AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY—NUMBER AND RATED CAPACITY OF PRIME MOVERS AND ELECTRIC MOTORS, 1929, 1927, 1925, 1919, AND 1914, AND OF GENERATORS, 1929, 1927, AND 1925; QUANTITY OF ELECTRIC ENERGY PURCHASED, 1929

TYPE	1929		1927		1925		1919		1914		PER CENT DISTRIBUTION OF RATED HORSE-POWER CAPACITY	
	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	1929	1919
Prime movers and electric motors driven by purchased energy, aggregate	864	Horse-power 2,276	526	Horse-power 1,928	426	Horse-power 2,052	201	Horse-power 2,001	124	Horse-power 1,641	100.0	100.0
Prime movers, total	7	436	8	519	7	323	13	749	20	1,323	19.2	37.4
Steam engines	7	436	8	519	7	323	9	700	13	1,231	19.2	35.0
Internal-combustion engines							4	49	7	92		2.4
Electric motors driven by purchased energy	857	1,840	518	1,400	419	1,729	188	1,252	104	318	80.8	62.6
Electric motors, total	857	1,840	530	1,509	420	1,769	304	1,624	161	926	100.0	100.0
Driven by purchased energy	857	1,840	518	1,409	419	1,729	188	1,252	104	318	100.0	77.1
Driven by energy generated in establishments reporting			12	100	1	40	116	372	57	608		22.9
Electric generators		Kilowatts	1	Kilowatts 150	1	Kilowatts 50	(1)	(1)	(1)	(1)		
Electric energy purchased ¹		Kilowatt-hours 1,942,596		(2)		(3)		(1)		(1)		

¹ Not called for on schedule.

² This item covers the consumption of purchased electric energy for all purposes—power, heat, light, etc.

³ Data incomplete.

TABLE 4.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1929, 1925, 1919, 1914, AND 1909, AND BY STATES, 1929

[This table presents statistics for the only two States for which figures can be given without disclosing data for individual establishments. The sum of the State items in any column is not, therefore, equal to the United States total at the head of the column. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures]

STATE	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum of maximum
		January	February	March	April	May	June	July	August	September	October	November	December	
United States:														
1929	1,680	1,716	1,783	1,795	1,770	1,677	1,593	1,550	<i>1,508</i>	1,600	1,754	1,741	1,685	84.0
1925	1,970	2,141	2,224	2,242	2,136	2,026	1,931	1,810	<i>1,730</i>	1,822	1,842	1,842	1,848	79.4
1919	2,539	2,415	2,413	2,447	2,602	2,557	2,574	2,609	2,674	2,801	2,643	2,647	2,786	79.0
1914	2,354	2,331	2,442	2,477	2,439	2,463	2,574	2,295	2,330	2,814	2,338	2,371	2,168	87.1
1909	2,775	2,579	2,640	2,683	2,783	2,803	2,875	2,857	2,785	2,894	2,853	2,806	2,773	89.4
Missouri	231	209	237	236	240	239	230	240	212	208	237	236	236	86.7
New York	938	984	1,031	1,013	984	906	842	820	837	904	1,000	998	937	80.1

ROOFING, BUILT-UP AND ROLL; ASPHALT SHINGLES; ROOF COATINGS OTHER THAN PAINTS

Description of the industry.—This industry classification covers establishments engaged wholly or principally in the manufacture of asphalt roll roofing, asphalt shingles, tar and asphalt saturated felt, and asphalt and other roof coatings.

Detailed statistics of products.—The census for 1929 was the first for which a special schedule, calling for data on quantities and values of the several classes of products, was used, and consequently it is impossible to give comparative figures for earlier years in Table 3.

Production of roofing materials, all classes.—Roofing materials of various classes are manufactured and specifically reported to the Bureau of the Census in seven different industries, namely: Roofing, built-up and roll, etc.; Asbestos products; Clay products; Concrete products; Paints and varnishes; Marble, granite, slate, and other stone products; Lumber and timber products. (Manufacturers of metal roofing do not report it separately.) For convenience, the production figures for all these classes of roofing materials have been brought together in Table 5.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1929

[Data for establishments with products under \$5,000 in value included for 1919 and prior years but not for 1921 and subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²	Horsepower
1929.....	102	6,027	\$8,951,537	\$61,391,590	\$103,506,090	\$42,114,500	33,791
1927.....	100	7,255	10,712,626	67,327,735	123,210,305	55,882,570	41,740
1925.....	140	8,310	12,144,764	78,596,627	123,560,811	44,994,184	34,161
1923.....	122	7,665	10,826,123	55,520,343	84,341,931	28,821,588	30,598
1921.....	136	6,908	9,213,047	45,013,397	76,193,430	31,180,038	(3)
1919.....	178	8,871	10,344,043	52,587,777	85,895,359	33,307,582	39,247
1914.....	170	4,088	2,642,136	17,664,944	27,977,913	10,372,969	11,702
1909.....	117	2,465	1,338,697	12,458,177	19,204,423	6,746,246	9,370
1904.....	307	8,819	4,007,669	10,842,307	19,870,953	9,028,646	22,962
1899.....	267	7,503	3,072,317	6,886,006	13,690,540	6,804,534	18,217
PER CENT OF INCREASE OR DECREASE (-)							
1927-1929.....	2.0	-16.9	-16.3	-8.8	-16.0	-24.6	-10.0
1925-1927.....	-28.6	-12.7	-11.8	-14.3	-0.3	24.2	22.2
1923-1925.....	14.8	8.4	12.2	41.6	46.5	56.1	-13.7
1921-1923.....	-10.3	11.0	17.5	23.3	10.7	-7.6	-----
1919-1921.....	-23.6	-22.1	-10.9	-14.4	-11.3	-6.4	-----
1910-1929.....	-42.7	-32.1	-13.5	16.7	20.5	26.4	-13.9
1909-1919.....	52.1	259.9	672.7	322.1	347.3	393.7	318.6
1899-1909.....	-56.2	-67.5	-56.4	80.9	40.3	-0.9	-48.5

¹ The figures for 1929 refer to sales (shipments or deliveries) by manufacturers; those for earlier years represent production. See GENERAL EXPLANATIONS—Value of Products.

² Value of products less cost of materials, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

³ Not called for on schedule.

CENSUS OF MANUFACTURES: 1929

TABLE 2.—GENERAL STATISTICS, BY STATES: 1929, 1927, AND 1919

[This table presents statistics separately for each State for which figures can be given without disclosing data for individual establishments, and for the remaining States in groups. Data for establishments with products under \$5,000 in value are included for 1919 but not for subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

STATE	Census year	Number of establishments	Salaried officers and employees ¹	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products ²	Value added by manufacture ³
					Total	Prime movers	Motors run by purchased energy			Total	Materials	Fuel and purchased energy		
United States.....	1929	102	1,384	6,027	33,791	6,032	27,759	\$3,504,548	\$8,951,537	\$61,391,590	\$59,372,354	\$2,019,236	\$103,506,090	\$42,114,500
	1927	100	1,742	7,255	41,740	10,126	31,614	4,404,231	10,712,620	67,327,735	64,787,349	2,540,386	128,210,305	55,832,570
	1919	178	2,855	8,871	39,247	18,245	21,002	5,414,650	10,344,043	52,587,777	49,956,679	2,631,098	85,895,359	33,307,682
Individual States:														
California.....	1929	10	78	492	2,147	-----	2,147	185,292	567,871	4,899,090	4,794,809	104,281	10,155,956	5,256,860
	1927	4	89	576	2,684	-----	2,684	216,106	742,558	3,763,080	3,691,650	71,430	8,071,330	4,308,260
	1919	9	190	506	6,500	365	5,195	254,718	640,781	2,708,678	2,436,678	271,900	4,608,420	1,859,842
Illinois.....	1929	21	417	2,162	14,468	5,297	9,156	1,096,980	3,306,696	22,628,104	21,882,852	745,252	35,344,906	12,716,802
	1927	21	525	2,199	14,711	6,852	7,859	1,265,633	3,468,850	22,473,729	21,069,882	803,847	40,211,251	17,737,522
	1919	25	895	2,722	9,425	6,734	2,691	1,730,910	3,120,209	17,618,078	16,688,437	829,630	27,561,165	10,043,080
Missouri.....	1929	4	66	147	691	-----	691	187,014	195,772	1,322,554	1,261,062	61,492	3,117,498	1,794,944
	1927	5	72	158	849	75	774	202,167	201,423	1,666,430	1,601,642	64,788	4,112,841	2,446,411
New Jersey.....	1929	11	170	1,011	4,021	185	3,836	354,425	1,747,045	11,061,442	10,655,858	405,584	17,264,373	6,202,981
	1927	10	266	1,101	3,487	2,630	1,457	629,288	1,885,280	11,308,321	10,764,402	543,919	19,649,492	8,341,171
	1919	15	248	690	2,357	2,271	86	553,042	739,548	4,071,655	3,881,460	190,205	6,565,179	2,481,524
New York.....	1929	13	114	325	1,989	-----	1,989	248,663	404,653	2,778,395	2,654,437	123,958	5,026,246	2,247,851
	1927	13	80	389	1,799	4	1,795	162,350	539,131	2,838,263	2,723,609	109,694	6,088,183	3,254,920
	1919	18	201	483	2,876	415	2,461	304,223	581,525	3,074,321	2,926,887	147,434	5,079,178	2,004,857
Ohio.....	1929	9	58	330	1,690	-----	1,690	153,444	606,145	4,592,134	4,479,921	112,213	8,367,954	3,775,820
	1927	7	180	609	8,336	100	8,236	604,435	1,292,630	6,796,708	6,564,543	232,165	12,080,407	5,289,099
	1919	20	403	1,138	7,240	2,966	4,263	699,054	1,431,951	7,600,002	7,600,006	308,996	12,785,424	4,876,422
Pennsylvania.....	1929	8	188	593	3,494	270	3,224	479,276	854,501	5,843,589	5,119,836	223,753	9,404,349	4,060,760
	1927	11	183	798	4,460	655	3,805	450,417	1,119,170	7,479,358	7,142,873	336,485	13,339,795	5,854,437
	1919	23	318	1,170	4,815	1,320	3,495	622,238	1,329,841	6,329,522	6,046,384	283,138	10,836,845	4,507,323
Groups of States:														
Colo., 1 est.; Oreg., 1; Utah, 1; Wash., 2.....	1929	5	21	76	261	40	221	67,017	88,189	436,214	421,599	14,615	787,625	331,411
Ind., 2 est.; Mich., 3; Other States (Ala., 1; Fla., 1; Ga., 1; Ky., 2; La., 2; Md., 1; Mass., 3; Minn., 3; Tenn., 1; Va., 1).....	1929	5	55	155	914	140	774	152,242	227,246	1,292,642	1,221,041	71,601	2,514,910	1,222,268
States not shown separately.....	1929	16	217	736	4,131	100	4,031	580,195	953,419	7,037,426	6,880,939	156,487	11,542,273	4,504,847
	1927	29	347	1,167	5,414	410	5,004	933,829	1,463,524	11,006,840	10,628,688	378,158	10,663,006	8,656,109
	1919	68	697	2,162	7,105	4,214	2,891	1,190,465	2,500,188	10,976,623	10,375,937	600,686	18,511,148	7,534,525

¹ Not including proprietors and firm members. The total numbers of persons engaged and the numbers of proprietors and firm members, as reported for this industry, are as follows: For 1929, total, 7,426; proprietors and firm members, 15. For 1927, total, 9,020; proprietors and firm members, 23. For 1919, total, 11,805; proprietors and firm members, 79.

² The figures for 1929 refer to sales (shipments or deliveries) by manufacturers; those for earlier years represent production. See GENERAL EXPLANATIONS—Value of Products.

³ Value of products less cost of materials, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

⁴ Data for purchased power other than electric (power transmitted into the plant by belt or shaft) are included in the State items for 1919 but not in the United States totals.

⁵ Alabama, 1 establishment; Colorado, 1; Georgia, 1; Indiana, 2; Louisiana, 2; Maryland, 1; Massachusetts, 5; Michigan, 4; Minnesota, 3; Oklahoma, 2; Oregon, 1; South Carolina, 1; Texas, 1; Utah, 1; Virginia, 2; Washington, 1.

⁶ Alabama, 3 establishments; Colorado, 2; Connecticut, 3; District of Columbia, 1; Indiana, 7; Iowa, 5; Kentucky, 3; Louisiana, 3; Maryland, 3; Massachusetts, 8; Michigan, 4; Minnesota, 4; Missouri, 4; New Mexico, 1; North Carolina, 1; Oklahoma, 2; Oregon, 2; Rhode Island, 1; South Carolina, 1; Virginia, 4; Wisconsin, 6.

TABLE 3.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1929

[The figures refer to sales (shipments or deliveries) by manufacturers. See GENERAL EXPLANATIONS—Value of Products]

KIND	Unit	Quantity	Value	KIND	Unit	Quantity	Value
1. Roofing, built-up and roll, asphalt shingles etc., industry, all products, total value.....			\$103,506,090	Roofing, built-up and roll, etc.—Contd. Asphalt shingles, total.....	Roofing squares.	11,076,636	\$42,201,343
2. Roofing.....			94,591,578	Strip, patented, hexagon, etc.....	do.....	9,692,774	33,707,354
3. Other products (not normally belonging to the industry).....			8,914,512	Individual and single-thickness.....	do.....	1,983,862	8,683,959
4. Roofing made as a secondary product in other industries, value.....			6,493,283	Saturated felt, total.....	Tons.....	205,525	9,803,629
Roofing, built-up and roll, asphalt shingles etc., all industries:				Asphalt-saturated felt.....	do.....	137,026	6,631,461
Aggregate value (sum of 2 and 4).....			101,084,861	Tar-saturated felt.....	do.....	68,499	3,172,168
Asphalt roll roofing, total.....	Roofing squares.	28,437,076	36,109,663	Roof coatings and cements, total.....			6,311,440
Smooth-roll.....	do.....	18,718,704	20,032,452	Asphalt roof cement (solid).....	do.....	35,161	842,420
Grit-roll.....	do.....	9,718,372	16,077,201	Fibrous plastic roof cement.....	Pounds.....	62,763,395	2,336,111
				Fibrous liquid roof coating.....	Gallons.....	4,941,583	2,115,578
				Nonfibrous liquid roof coating.....	do.....	1,931,269	1,017,340
				Other roofing materials and those not reported by kind ¹			6,668,787

¹ Coal-tar roofing pitch, roofing paper, miscellaneous roofing materials, and roofing materials not reported by kind

ROOFING, BUILT-UP AND ROLL, ETC.

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TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, BY STATES: 1929

(The figures refer to sales (shipments or deliveries) by manufacturers. See GENERAL EXPLANATIONS—Value of Products. Figures are given for each State which can be shown separately without disclosing data for individual establishments, and for the remaining States in groups)

KIND AND STATE	Number of establishments	Quantity	Value	KIND AND STATE	Number of establishments	Quantity	Value
Asphalt smooth-roll roofing, total.....	61	<i>Roofing squares</i> 18,718,704	\$20,032,452	Tar-saturated felt, total.....	29	<i>Tons</i> 68,490	\$3,172,168
California.....	6	2,436,336	3,244,644	Pennsylvania.....	3	17,559	833,042
Illinois.....	17	6,870,699	5,832,265	Ill., 7 establishments; Minn., 2; Mo., 1;	10	27,680	1,150,118
New Jersey.....	5	1,612,283	1,430,226	N. J., 2; N. Y., 2; Ohio, 2.....	6	16,901	808,561
New York.....	6	893,178	910,955	Other States (Ala., 2; Calif., 1; La., 1;	10	6,359	320,447
Pennsylvania.....	5	1,063,263	2,093,128	Md., 1; Mass., 1; Oreg., 1; Utah, 1;			
Ind., 1 establishment; Mich., 2; Ohio, 4;	7	2,066,351	2,576,847	Wash., 2).....			
Minn., 2; Mo., 2.....	4	698,944	720,389	Asphalt roof cement (solid), total.....	19	35,161	842,420
Other States (Ala., 1; Colo., 1; Ga., 1;				Illinois.....	6	14,281	364,199
La., 1; Md., 1; Mass., 2; Oreg., 1;				Other States (Ala., 1 establishment;			
Tex., 1; Utah, 1; Wash., 1).....	11	3,269,650	3,217,998	Calif., 1; Ga., 1; Ind., 1; Md., 1; Minn.,			
Asphalt grit-roll roofing, total.....	55	9,718,372	16,077,201	1; Mo., 1; N. J., 1; Oreg., 1; Ohio, 2;	13	20,880	478,221
California.....	6	881,684	1,461,348	Pa., 2).....			
Illinois.....	17	4,727,349	7,979,502	Fibrous plastic roof cement, total.....	76	<i>Pounds</i> 52,753,395	2,336,111
New Jersey.....	4	665,114	782,181	California.....	6	1,126,241	44,292
New York.....	6	512,970	880,385	Illinois.....	11	10,902,473	459,461
Ohio.....	3	321,226	506,071	Missouri.....	5	3,081,177	164,207
Pennsylvania.....	5	1,008,165	2,006,612	New Jersey.....	6	5,297,897	292,180
Ind., 1 establishment; Mich., 2.....	3	238,766	510,737	New York.....	8	4,445,302	113,732
Minn., 2; Mo., 2.....	4	564,335	899,774	Ohio.....	11	9,356,681	354,762
Md., 1; Mass., 2.....	3	378,814	542,279	Pennsylvania.....	7	3,094,485	166,563
Other States (Ala., 1; Ga., 1; La., 1;	4	419,459	610,360	Other States (Ala., 2 establishments;			
Utah, 1).....				Fla., 1; Ga., 2; Ind., 2; Ky., 2; La., 2;			
Asphalt strip shingles, patented, hexagon,				Md., 1; Mass., 1; Mich., 2; Minn.,			
etc., total.....	52	0,692,774	33,707,884	1; Oreg., 1; Tenn., 1; Utah, 1; Vt., 1;	22	15,479,129	750,964
California.....	6	858,393	2,728,442	Wash., 2).....			
Illinois.....	15	3,847,238	12,631,283	Fibrous liquid roof coating, total.....	61	<i>Gallons</i> 4,941,563	2,115,578
New Jersey.....	4	1,470,241	5,501,288	California.....	7	61,117	35,084
New York.....	6	560,643	2,198,426	Illinois.....	12	1,571,031	498,033
Ohio.....	3	488,278	1,728,056	New York.....	4	126,691	89,516
Pennsylvania.....	4	482,263	1,372,932	Pennsylvania.....	6	316,430	122,623
Ind., 1 establishment; Mich., 2.....	3	227,223	1,079,922	Ind., 1 establishment; Mich., 2; Ohio, 5;	8	943,324	354,748
Minn., 2; Mo., 2.....	4	592,282	2,209,140	Other States (Ala., 1; Colo., 1; Ga., 1;			
Other States (Ala., 1; Ga., 1; La., 1;				Ky., 1; La., 2; Md., 1; Mass., 1;			
Md., 1; Mass., 2; Utah, 1).....	7	1,166,223	4,177,896	Minn., 1; Mo., 4; N. J., 6; Oreg., 1;			
Asphalt individual and single-thickness				Tenn., 1; Utah, 1; Wash., 2).....	24	1,923,070	1,155,574
shingles (all kinds), total.....	51	1,983,862	8,583,959	Nonfibrous liquid roof coating, total.....	48	1,931,269	1,017,340
California.....	5	117,088	541,849	California.....	5	178,941	65,285
Illinois.....	15	375,889	1,504,548	Illinois.....	8	852,586	550,313
New Jersey.....	4	454,560	1,689,168	Missouri.....	4	93,071	37,228
New York.....	5	74,104	419,997	New Jersey.....	4	283,291	164,816
Pennsylvania.....	4	56,493	215,026	New York.....	5	95,199	23,522
Ind., 1 establishment; Mich., 2; Ohio, 4;	7	673,022	3,330,951	Pennsylvania.....	6	142,564	54,941
Minn., 2; Mo., 2.....	4	52,630	224,431	Ind., 2 establishments; Mich., 1; Minn.,			
Md., 1; Mass., 2.....	3	59,090	232,679	1; Ohio, 3.....	7	184,242	89,261
Other States (Ala., 1; Ga., 1; La., 1;				Other States (Ala., 1; Ky., 1; La., 2;			
Utah, 1).....	4	123,036	484,310	Md., 1; Oreg., 1; Tenn., 1; Utah, 1;			
Asphalt-saturated felt, total.....	52	<i>Tons</i> 137,026	6,631,461	Wash., 2).....	10	101,455	41,979
California.....	6	24,464	1,376,107	Other roofing materials and those not			
Illinois.....	13	43,028	2,011,430	reported by kind, total.....	59		6,568,787
Missouri.....	3	3,291	178,414	Massachusetts.....	6		336,026
New Jersey.....	5	17,790	825,074	Md., 1 establishment; N. J., 11; N. Y.,			
New York.....	5	2,533	128,398	2; Pa., 7.....	21		3,116,537
Pennsylvania.....	5	23,680	1,080,940	Ind., 1; Ky., 1; Mich., 1; Ohio, 3.....	8		257,632
Md., 1 establishment; Mass., 2.....	3	9,415	450,659	Other States (Ala., 2; Calif., 2; Fla., 4;			
Other States (Ala., 1; Ga., 1; Ind., 1; La.,				Ill., 6; La., 1; Minn., 2; Mo., 1; Oreg.,			
1; Mich., 2; Minn., 1; Ohio, 2; Oreg.,				2; Tex., 1; Wash., 3).....	26		2,859,592
1; Tenn., 1; Wash., 1).....	12	12,175	580,409				

¹ Coal-tar roofing pitch, roofing paper, miscellaneous roofing materials, and roofing materials not reported in detail.

CENSUS OF MANUFACTURES: 1929

TABLE 5.—ROOFING MATERIALS, ALL CLASSES—PRODUCTION, BY CLASS, QUANTITY, AND VALUE, AND INDUSTRY IN WHICH MANUFACTURED, FOR THE UNITED STATES: 1929, 1927, AND 1925

[This table shows the production, so far as reported separately, of all classes of roofing materials, including those made in industries other than "Roofing, built-up and roll; asphalt shingles; roof coatings other than paints"]

CLASS ¹	Census year ²	Quantity	Value	Industry in which manufactured
Total.....	1929	<i>Roofing squares</i>	\$129,832,620	
Asbestos shingles.....	1929 1927	894,164 1,009,767	5,277,308 6,450,088	Asbestos products, other than steam packing or pipe and boiler covering.
Asphalt roll roofing.....	1929	28,437,070	36,109,653	Roofing, built-up and roll; asphalt shingles; roof coatings other than paints.
Asphalt shingles.....	1929	11,676,636	42,291,343	Do.
Asphalt and tar-saturated felt.....	1929	<i>Tons</i> 205,525	9,803,029	Do.
Clay roofing tile.....	1929 1927 1925	<i>Roofing squares</i> 370,771 398,451 289,956	3,943,847 5,348,750 5,155,301	Clay products.
Concrete roofing tile.....	1929 1927 1925	<i>Tons</i> 137,052 118,305 116,555	2,869,092 3,178,290 3,538,601	Concrete products.
Asphalt roof cement.....	1929	35,161	842,420	Roofing, built-up and roll; asphalt shingles; roof coatings other than paints.
Fibrous plastic roof cement.....	1929	<i>Pounds</i> 52,753,395	2,336,111	Roofing, built-up and roll; asphalt shingles; roof coatings other than paints. Paints and varnishes. ⁴
Fibrous liquid roof coating.....	1929	<i>Gallons</i> 4,941,563	2,115,573	Roofing, built-up and roll; asphalt shingles; roof coatings other than paints.
Nonfibrous liquid roof coating.....	1929	1,931,269	1,017,340	Do.
Slate roofing.....	1929 1927 1925	(⁵) (⁵) (⁵)	5,207,711 6,001,063 4,273,536	Marble, granite, slate, and other stone products.
Wooden shingles.....	1929 1927 1925	<i>Thousands</i> 6,110,672 6,443,808 7,324,027	18,018,588 16,302,995 21,825,060	Lumber and timber products.

¹ No data for metal roofing have been separately reported to the Bureau of the Census.

² No comparable data for 1927 and 1925 for items for which these years are not shown.

³ Does not include data for cement roofing tile, valued at \$470,075 (quantity not reported), made in establishments classified in the roofing-materials industry. Manufacturers of such tile were assigned to the concrete-products industry at the censuses for 1927 and 1929.

⁴ Also made to some extent as secondary products in other industries.

⁵ Not reported.

TABLE 6.—PRIME MOVERS, MOTORS, GENERATORS, AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY—NUMBER AND RATED CAPACITY OF PRIME MOVERS AND ELECTRIC MOTORS, 1929, 1927, 1925, 1919, AND 1914, AND OF GENERATORS, 1929, 1927, AND 1925; QUANTITY OF ELECTRIC ENERGY PURCHASED, 1929

TYPE	1929		1927		1925		1919		1914		PER CENT DISTRIBUTION OF RATED HORSE-POWER CAPACITY	
	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	1929	1919
Prime movers and electric motors driven by purchased energy, aggregate.....	2,445	<i>Horse-power</i> 33,791	2,407	<i>Horse-power</i> 41,740	2,034	<i>Horse-power</i> 34,161	1,291	<i>Horse-power</i> 39,247	562	<i>Horse-power</i> 11,702	100.0	100.0
Prime movers, total.....	43	6,032	62	10,126	86	6,795	158	18,245	124	6,520	17.9	46.5
Steam, total.....	35	4,732	46	7,721	63	5,124	138	15,847	114	6,263	14.0	40.4
Engines.....	32	2,802	41	4,679	59	3,739	136	15,037	(¹)	(¹)	8.3	38.3
Turbines.....	3	1,930	5	3,042	4	1,385	2	810	(¹)	(¹)	5.7	2.1
Internal-combustion engines.....	8	1,300	8	405	22	1,596	8	253	7	211		0.6
Water wheels and water turbines.....	8	1,300	8	2,000	1	75	12	56	3	56	3.9	5.5
Electric motors driven by purchased energy.....	2,402	27,759	2,345	31,614	1,943	27,366	1,133	21,002	438	5,182	82.1	53.5
Electric motors, total.....	2,677	31,112	2,775	36,977	2,358	31,582	1,669	29,355	612	7,369	100.0	100.0
Driven by purchased energy.....	2,402	27,759	2,345	31,614	1,943	27,366	1,133	21,002	438	5,182	89.2	71.5
Driven by energy generated in establishments reporting.....	275	3,353	430	5,363	440	4,216	536	8,353	174	2,187	10.8	28.5
Electric generators.....	9	<i>Kilowatts</i> 2,593 <i>Kilowatt-hours</i> 37,724,523	20	<i>Kilowatts</i> 3,455	20	<i>Kilowatts</i> 3,622	(²)	(²)	(²)	(²)		
Electric energy purchased ³				(⁴)		(⁴)		(⁴)		(⁴)		

¹ Not called for separately on schedule.

² Not called for on schedule.

³ This item covers the consumption of purchased electric energy for all purposes—power, heat, light, etc.

⁴ Data incomplete.

ROOFING, BUILT-UP AND ROLL, ETC.

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TABLE 7.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1929, 1925, 1919, 1914, AND 1909, AND BY STATES, 1929

[This table presents statistics for only those States for which figures can be given without disclosing data for individual establishments. The sum of the State items in any column is not, therefore, equal to the United States total at the head of the column. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures]

STATE	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum	
		January	February	March	April	May	June	July	August	September	October	November	December		
United States:															
1929.....	6,027	<i>5,151</i>	5,506	5,885	6,262	6,598	6,637	6,412	6,422	6,409	6,106	5,598	5,267	77.3	
1925.....	8,310	8,148	7,907	8,190	8,355	8,463	8,312	8,582	8,573	8,545	8,765	8,184	7,704	87.9	
1919.....	8,871	7,814	7,541	7,647	7,837	8,114	8,863	9,228	9,748	10,034	10,082	9,627	9,717	74.8	
1914.....	4,088	3,825	3,787	4,003	4,232	4,295	4,240	4,265	4,131	4,325	4,314	3,970	3,729	86.2	
1909.....	2,465	<i>2,177</i>	2,204	2,342	2,465	2,494	2,408	2,424	2,465	2,694	2,753	2,636	2,522	79.1	
California.....	492	<i>445</i>	458	445	458	471	492	474	492	472	561	518	487	75.0	
Illinois.....	2,162	<i>1,720</i>	1,881	2,067	2,223	2,380	2,476	2,357	2,465	2,365	2,182	1,962	1,833	69.4	
Missouri.....	147	<i>135</i>	152	157	163	168	166	164	141	145	145	135	84	50.0	
New Jersey.....	1,011	<i>858</i>	925	971	1,007	1,120	1,118	1,074	1,079	1,071	1,045	953	917	78.6	
New York.....	325	<i>271</i>	344	349	365	373	366	369	331	321	284	268	259	69.4	
Ohio.....	330	<i>294</i>	324	320	354	344	351	351	339	339	344	301	298	83.1	
Pennsylvania.....	593	<i>567</i>	621	649	653	649	609	608	581	586	550	530	518	79.3	

SANDPAPER, EMERY PAPER, AND OTHER ABRASIVE PAPER AND CLOTH

Description of the industry.—The establishments assigned to this industry classification are those whose principal products are sandpaper, emery paper, and other abrasive paper and cloth, made by coating paper and cloth with abrasives, such as sand, emery, and carborundum.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1929

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers for products, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²	Horsepower
1929	11	1,228	\$1,739,544	\$8,375,277	\$17,218,590	\$8,843,313	0,927
1927	10	917	1,228,420	5,470,629	12,232,064	6,761,435	2,834
1925	12	1,290	1,713,967	7,341,590	15,622,720	8,281,130	4,513
1923	14	1,176	1,518,526	6,870,410	13,755,079	6,582,669	3,694
1921	12	680	867,585	2,691,851	6,462,025	2,870,174	(³)
1919	12	771	840,766	5,060,561	9,303,734	4,243,173	3,977
1914	12	681	359,201	2,686,530	4,328,127	1,641,567	3,092
1909	10	611	369,603	2,382,483	4,357,122	1,975,334	3,266
1904	8	305	182,518	1,054,605	1,477,003	422,398	1,042
1899	9	274	144,183	681,240	1,176,895	404,655	895
PER CENT OF INCREASE OR DECREASE (—)							
1927-1929	(⁴)	33.9	41.6	53.1	40.8	30.8	144.4
1925-1927	(⁴)	-25.4	-28.3	-25.5	-21.7	-18.4	-37.2
1923-1925	(⁴)	4.0	12.9	6.9	13.6	20.3	22.2
1921-1923	(⁴)	72.9	75.0	91.3	112.8	139.8	-----
1919-1921	(⁴)	-11.8	3.2	-29.0	-30.5	-32.4	-----
1919-1929	(⁴)	59.3	106.9	65.5	65.1	108.4	74.2
1909-1919	(⁴)	26.2	127.5	112.4	113.5	114.8	21.8
1899-1909	(⁴)	123.0	156.3	249.7	270.6	299.3	264.9

¹ For 1929, manufacturers' sales (shipments or deliveries); for earlier years, production. See GENERAL EXPLANATIONS—Value of Products.
² Includes following values of miscellaneous commodities, normally belonging to other industries, made as secondary products by establishments engaged primarily in the manufacture of sandpaper, emery paper, etc.: 1929, \$983,799; 1927, \$284,000; 1925, \$768,100; corresponding amounts for earlier years not available. Does not include following values of sandpaper, emery paper, etc., made as secondary products by establishments classified in other industries: 1929, \$4,077,650; 1927, \$5,503,641; 1925, \$2,929,348; 1923, \$2,862,503; 1921, \$1,393,841; 1919, \$2,764,150; corresponding amounts for earlier years not available.
³ Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.
⁴ Not called for on schedule.
⁵ Per cent not computed where base is less than 100.

TABLE 2.—GENERAL STATISTICS, BY STATES: 1929, 1927, AND 1919

[Pennsylvania is the only State for which separate figures can be given without disclosing data for individual establishments. Certain of the "Other States," however, reported larger values of products than Pennsylvania]

STATE	Census year	Number of establishments	Salaried officers and employees ¹	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products ²	Value added by manufacture ³
					Total	Prime movers	Motors run by purchased energy			Total	Materials and containers	Fuel and purchased energy		
United States	1929	11	588	1,228	6,927	1,522	5,405	\$1,613,018	\$1,739,544	\$8,375,277	\$8,152,593	\$222,684	\$17,218,590	\$8,843,313
	1927	10	413	917	2,834	547	2,287	1,127,893	1,228,420	5,470,629	5,338,209	132,420	12,232,064	6,761,435
	1919	12	328	771	3,977	3,120	857	744,282	840,766	5,060,561	4,935,624	124,937	9,303,734	4,243,173
Pennsylvania	1929	3	122	391	3,445	1,275	2,170	278,040	578,954	2,550,682	2,452,217	104,465	3,909,480	1,352,804
	1927	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)
	1919	3	100	211	2,345	2,205	140	255,236	231,726	1,211,699	1,167,346	44,353	2,248,040	1,036,341
Other States	⁵ 1929	8	466	637	3,482	247	3,235	1,334,378	1,160,590	5,818,595	5,700,376	118,219	13,309,104	7,490,509
	⁶ 1927	10	413	917	2,834	547	2,287	1,127,893	1,228,420	5,470,629	5,338,209	132,420	12,232,064	6,761,435
	⁷ 1919	9	228	560	1,632	915	717	489,046	606,040	3,848,862	3,768,278	80,584	7,055,694	3,206,832

¹ Not including proprietors and firm members, as follows: For 1929, 1; 1927, 1; 1919, 3. The total numbers of persons engaged—proprietors and firm members, salaried officers and employees, and wage earners—as reported for the industry, are as follows: For 1929, 1,817; 1927, 1,331; 1919, 1,102.
² For 1929, manufacturers' sales (shipments or deliveries); for earlier years, production. See GENERAL EXPLANATIONS—Value of Products.
³ Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.
⁴ Withheld from publication in order to avoid disclosing data for individual establishments.
⁵ Illinois, 1 establishment; Massachusetts, 3; Minnesota, 1; New York, 2; Ohio, 1.
⁶ Massachusetts, 2 establishments; Minnesota, 1; New Jersey, 1; New York, 3; Pennsylvania, 2; Wisconsin, 1.
⁷ Illinois, 1 establishment; Maine, 1; Massachusetts, 1; Minnesota, 1; New York, 4; Wisconsin, 1.

SANDPAPER, EMERY PAPER, ETC.

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TABLE 3.—PRIME MOVERS, MOTORS, GENERATORS, AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY—NUMBER AND RATED CAPACITY OF PRIME MOVERS AND ELECTRIC MOTORS, 1929, 1927, 1925, 1919, AND 1914, AND OF GENERATORS, 1929 AND 1927; QUANTITY OF ELECTRIC ENERGY PURCHASED, 1929

TYPE	1929		1927		1925		1919		1914		PER CENT DISTRIBUTION OF RATED HORSEPOWER CAPACITY	
	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	1929	1919
Prime movers and electric motors driven by purchased energy, aggregate.....	958	<i>Horsepower</i> 6,927	327	<i>Horsepower</i> 2,834	290	<i>Horsepower</i> 4,513	117	<i>Horsepower</i> 3,977	63	<i>Horsepower</i> 3,092	100.0	100.0
Prime movers, total.....	8	1,522	6	547	13	2,215	22	3,120	27	2,695	22.0	78.5
Steam engines.....	8	1,522	5	517	12	2,185	21	3,080	27	2,695	22.0	77.5
Internal-combustion engines.....			1	30	1	30						
Water wheels and water turbines.....							1	40				1.0
Electric motors driven by purchased energy.....	950	5,405	321	2,287	286	2,298	95	857	36	397	78.0	21.5
Electric motors, total.....	1,021	6,213	345	2,594	286	2,298	138	1,227	64	577	100.0	100.0
Driven by purchased energy.....	950	5,405	321	2,287	286	2,298	95	857	36	397	87.0	69.8
Driven by energy generated in establishments reporting.....	71	808	24	307			43	370	28	180	13.0	30.2
Electric generators.....	6	<i>Kilowatts</i> 685	4	<i>Kilowatts</i> 240			(1)	(1)	(1)	(1)		
Electric energy purchased ²		<i>Kilowatt-hours</i> 5,018,351		(1)		(1)		(1)		(1)		

¹ Not called for on schedule.
² This item covers the consumption of purchased electric energy for all purposes—power, heat, light, etc.
³ Data incomplete.

TABLE 4.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1929, 1925, 1919, 1914, AND 1909, AND FOR PENNSYLVANIA, 1929

[Pennsylvania is the only State for which separate figures can be given without disclosing data for individual establishments. (See headnote, Table 2.) The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures]

STATE	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum	
		January	February	March	April	May	June	July	August	September	October	November	December		
United States:															
1929.....	1,228	1,114	<i>1,113</i>	1,192	1,229	1,290	1,304	1,204	1,213	1,243	1,338	1,294	1,200	82.2	
1925.....	1,230	1,209	<i>1,181</i>	1,202	1,227	1,236	1,232	1,213	1,241	1,241	1,262	1,274	1,245	93.5	
1919.....	771	690	<i>696</i>	632	692	702	750	780	782	828	876	860	894	76.3	
1914.....	681	747	<i>736</i>	736	724	624	622	<i>616</i>	625	653	645	715	729	82.5	
1909.....	611	690	<i>688</i>	720	631	581	567	528	413	545	573	619	669	71.2	
Pennsylvania.....	301	411	399	404	407	412	430	362	351	<i>340</i>	404	390	380	79.1	

SIGNS AND ADVERTISING NOVELTIES

Description of the industry.—The principal products of this industry are neon and other electric signs; posters, show cards, and window and lobby displays not lithographed or printed; name plates and storefront signs; highway and other signs made in the shop; and advertising novelties and devices. This industry classification does not cover sign painting and lettering

done outside the shop, on billboards, walls, windows, etc.

A special schedule calling specifically for data on the output of neon signs, other electric signs, other signs, and advertising novelties was used for the first time at the census for 1929. No comparable figures for years prior to 1929 can, therefore, be given in Table 3.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1909 TO 1929

[Data for establishments with products under \$5,000 in value included for 1919 and prior years but not for 1921 and subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²	Horsepower
1929	1,239	20,000	\$27,900,605	\$35,701,412	\$118,044,157	\$82,342,745	19,627
1927	813	16,907	24,044,389	30,892,294	98,481,024	67,588,730	15,325
1925	759	15,128	20,764,187	25,858,149	89,609,343	63,811,194	12,560
1923	648	12,988	16,429,466	22,641,082	67,223,676	44,582,594	11,781
1921	624	10,373	12,703,005	18,734,401	53,270,864	34,536,403	(3)
1919	779	10,432	9,715,216	16,071,924	43,343,093	27,271,169	7,714
1914	776	9,566	5,933,044	9,058,788	24,792,210	15,733,422	7,345
1909	288	5,540	3,104,593	4,708,915	13,546,385	8,837,470	3,731
PER CENT OF INCREASE OR DECREASE (—)							
1927-1929	52.4	18.3	16.0	15.6	19.9	21.8	28.1
1925-1927	7.1	11.8	15.8	19.5	9.8	5.9	22.1
1923-1925	17.1	16.5	26.4	14.2	33.4	43.1	6.5
1921-1923	3.8	25.2	29.3	20.9	26.2	29.1	-----
1919-1921	-19.9	-0.6	30.8	16.6	22.9	26.6	-----
1919-1929	59.1	91.7	187.2	122.1	172.3	201.9	154.4
1909-1919	170.5	83.3	212.9	241.3	220.0	208.6	106.8

- ¹ For 1929, manufacturers' sales (shipments or deliveries); for earlier years, production. See GENERAL EXPLANATIONS—Value of Products.
² Value of products less cost of materials, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.
³ Not called for on schedule.
⁴ No comparable figures for years prior to 1909.

TABLE 2.—GENERAL STATISTICS, BY STATES: 1929, 1927, AND 1919

[This table presents statistics separately for each State for which figures can be given without disclosing data for individual establishments, and for the remaining States in groups. Data for establishments with products under \$5,000 in value are included for 1919 but not for subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

STATE	Census year	Number of establishments	Salaried officers and employees ¹	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products ²	Value added by manufacture ³
					Total	Prime movers	Motors run by purchased energy			Total	Materials	Fuel and purchased energy		
United States	1929	1,239	5,119	20,000	19,627	5,254	14,373	\$13,126,635	\$27,900,605	\$35,701,412	\$34,489,083	\$1,212,329	\$118,044,157	\$82,342,745
	1927	813	4,563	16,907	15,325	5,365	9,960	10,411,959	24,044,389	30,892,294	20,896,399	1,055,895	98,481,024	67,588,730
	1919	779	3,776	10,432	7,714	3,188	4,526	6,631,470	9,715,216	16,071,924	15,716,871	355,353	43,343,093	27,271,169
Individual States:														
Alabama	1929	6	9	24	2	-----	2	14,582	53,972	23,879	22,362	1,517	119,491	95,612
	1927	6	31	45	1	-----	1	52,960	84,804	40,480	40,416	73	270,253	229,764
California	1929	98	290	868	425	-----	425	575,526	1,501,263	1,409,642	1,380,003	20,549	7,221,151	5,811,509
	1927	64	134	485	156	-----	156	297,858	911,985	655,521	642,067	13,454	2,707,308	2,051,847
	1919	32	74	239	85	-----	85	166,136	312,007	361,746	350,783	10,963	1,075,594	713,848
Colorado	1929	20	65	126	39	-----	39	117,074	197,066	250,283	218,253	38,050	928,554	672,271
	1927	12	26	45	10	-----	10	28,640	62,224	97,322	95,603	659	342,515	245,193
	1919	10	25	71	22	-----	22	30,215	75,195	62,084	60,655	1,399	210,006	153,922

See footnotes at end of table.

SIGNS AND ADVERTISING NOVELTIES

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TABLE 2.—GENERAL STATISTICS, BY STATES: 1929, 1927, AND 1919—Continued

(See note at head of this table)

STATE	Census year	Number of establishments	Salary officers and employes ¹	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products ²	Value added by manufacture ³
					Total	Primamovers	Motors run by purchased energy			Total	Materials	Fuel and purchased energy		
Individual States—Con.														
Connecticut.....	1929	17	69	138	44	44	\$148,783	\$248,733	\$193,169	\$191,601	\$1,568	\$936,612	\$743,443	
	1927	13	30	80	26	26	58,651	124,720	121,866	120,063	1,803	453,239	336,373	
	1919	26	16	31	26	26	16,767	27,155	65,527	64,615	912	197,418	131,891	
Delaware.....	1929	3	7	21	8	8	13,689	35,253	17,498	17,108	390	78,271	60,773	
District of Columbia.....	1929	5	2	27	6	6	4,340	41,448	19,264	18,936	328	102,320	83,056	
Florida.....	1929	13	101	203	15	15	167,106	185,470	161,060	156,651	5,309	1,433,077	1,271,117	
	1927	7	29	66	6	6	59,292	105,225	94,428	81,406	13,022	174,643,884	124,882,326	
	1919	8	19	54	6	6	27,916	56,187	34,126	31,360	2,766	231,071	196,945	
Georgia.....	1929	10	27	55	18	18	43,567	77,629	101,077	98,719	2,358	253,983	152,906	
	1927	8	19	54	6	6	27,916	56,187	34,126	31,360	2,766	231,071	196,945	
	1919	109	837	1,883	1,383	363	1,020	2,903,085	5,006,250	6,618,650	6,417,014	201,636	22,228,963	15,610,253
Illinois.....	1929	149	995	3,321	3,348	625	2,723	2,903,085	5,006,250	6,618,650	6,417,014	201,636	22,228,963	15,610,253
	1927	113	952	2,851	2,927	170	2,757	2,095,224	4,080,971	5,175,558	5,069,235	166,323	17,643,884	12,468,326
	1919	109	837	1,883	1,383	363	1,020	2,903,085	5,006,250	6,618,650	6,417,014	201,636	22,228,963	15,610,253
Indiana.....	1929	25	100	316	247	247	269,819	353,730	506,088	463,370	42,718	1,824,131	1,318,643	
	1927	17	61	222	99	99	139,084	285,952	375,908	347,655	28,853	1,323,679	947,671	
	1919	12	41	78	31	31	63,025	54,139	152,719	150,827	1,892	371,025	218,906	
Iowa.....	1929	18	110	321	243	243	232,123	340,234	964,528	944,236	20,292	2,224,581	1,260,053	
	1927	13	233	382	102	102	378,317	448,294	1,130,927	1,123,558	7,369	3,204,568	2,150,512	
	1919	17	282	330	232	230	673,076	331,487	638,677	624,122	14,555	2,367,016	1,728,339	
Kansas.....	1929	8	22	79	80	30	69,839	121,932	121,529	121,451	19,048	610,105	488,676	
	1927	7	17	25	11	11	25,445	39,599	57,459	54,408	3,051	163,000	105,541	
	1919	4	6	25	1	1	6,522	25,991	18,606	18,172	433	84,457	65,852	
Kentucky.....	1929	9	64	243	302	15	287	119,073	223,784	429,747	419,750	9,997	999,675	569,828
	1927	7	44	234	234	234	114,989	264,468	428,421	408,401	20,020	1,204,152	775,781	
	1919	6	18	86	102	102	33,821	62,016	128,524	122,722	2,802	367,639	242,115	
Louisiana.....	1929	5	7	39	10	10	14,765	45,088	44,189	42,457	1,732	121,294	77,105	
	1927	5	16	39	8	8	18,460	59,339	34,366	33,928	428	153,343	118,987	
Maine.....	1929	7	6	34	11	11	17,140	38,686	35,099	34,294	895	153,641	118,542	
	1927	4	6	27	6	6	12,873	33,483	32,967	32,351	616	109,077	76,110	
Maryland.....	1929	21	89	610	481	322	159	268,967	744,110	813,491	756,367	58,124	2,657,074	1,843,583
	1927	20	104	632	336	287	49	262,356	849,324	810,224	765,397	44,827	2,890,497	2,060,273
	1919	9	20	72	81	45	16	38,376	71,225	117,536	115,630	2,306	287,565	169,759
Massachusetts.....	1929	28	81	359	290	290	172,404	448,975	429,488	419,116	10,322	1,395,600	966,062	
	1927	22	67	338	266	266	160,992	435,605	381,474	373,216	8,258	1,283,562	902,078	
	1919	21	74	309	198	198	160,198	318,041	342,510	335,434	7,076	1,059,662	717,162	
Michigan.....	1929	56	200	834	1,341	300	1,041	499,715	1,275,383	1,761,089	1,670,045	91,044	5,460,740	3,699,651
	1927	25	148	570	889	300	589	368,170	874,325	1,084,650	1,060,904	23,746	3,711,029	2,620,879
	1919	25	63	200	87	87	87	126,928	274,901	385,794	363,616	22,178	1,080,477	694,683
Minnesota.....	1929	46	359	1,015	2,818	2,285	533	840,724	2,155,008	2,449,878	2,397,113	52,465	9,242,731	6,799,153
	1927	32	482	1,593	3,154	2,550	604	745,550	2,205,829	2,540,264	2,448,131	92,183	9,755,991	7,215,027
	1919	31	395	1,089	504	340	164	697,742	955,589	1,242,718	1,218,313	21,405	4,083,862	2,840,744
Mississippi.....	1929	5	8	21	7	7	7	13,192	28,905	23,300	22,958	342	87,327	64,027
Missouri.....	1929	30	158	592	260	15	245	426,041	662,621	1,249,582	1,196,866	52,716	3,647,373	2,397,791
	1927	25	145	401	284	234	234	299,354	522,488	980,465	957,786	22,679	2,459,816	1,509,351
	1919	21	89	294	119	2	117	140,353	242,930	479,511	472,485	7,026	1,044,371	564,860
Nebraska.....	1929	8	53	184	25	25	25	160,799	223,376	217,026	210,834	6,192	984,467	767,441
New Hampshire.....	1929	8	—	32	6	6	6	—	34,007	27,838	27,838	—	106,216	78,378
New Jersey.....	1929	40	342	1,115	1,240	567	673	803,518	1,561,070	1,690,790	1,641,263	49,587	5,593,512	3,962,722
	1927	25	276	899	846	517	329	638,123	1,255,998	1,484,051	1,448,381	35,670	4,781,149	3,297,098
	1919	17	263	658	453	370	83	502,849	508,564	879,050	852,200	26,841	2,543,622	1,604,772
New York.....	1929	265	828	3,293	2,881	185	2,696	2,470,457	5,373,426	6,094,255	5,933,810	160,445	20,169,661	14,075,406
	1927	143	652	2,523	2,878	260	1,878	1,657,991	4,107,270	4,920,401	4,818,374	102,027	10,133,196	6,812,451
	1919	172	669	2,172	1,737	843	894	1,361,453	2,145,087	3,412,927	3,359,672	63,355	8,442,161	5,029,224
North Carolina.....	1929	4	4	25	2	2	2	3,720	24,700	56,950	56,000	350	143,851	88,901
	1927	3	2	13	—	—	—	2,868	17,110	9,113	9,078	35	36,681	27,568
Ohio.....	1929	109	546	2,693	3,525	870	2,655	1,284,121	3,284,063	5,549,910	5,396,569	153,401	14,419,093	8,869,183
	1927	82	488	2,680	2,435	1,250	1,185	1,307,604	3,217,755	4,870,548	4,705,768	164,780	14,483,609	9,612,451
	1919	70	614	1,907	2,161	1,186	975	951,437	1,604,695	3,166,860	3,096,138	70,748	7,903,025	4,739,739
Oklahoma.....	1929	13	27	98	28	28	28	63,075	138,634	134,196	129,043	5,153	501,759	427,563
	1927	(4)	(3)	(7)	(4)	(2)	(1)	(5)	(5)	(5)	(5)	(5)	(5)	(5)
	1919	8	2	7	3	3	3	2,765	13,822	6,134	5,934	200	31,376	25,242
Oregon.....	1929	8	55	183	48	48	48	130,641	206,790	298,787	294,300	4,487	821,426	612,639
	1927	6	6	27	6	6	6	6,873	53,623	42,934	42,267	667	151,972	109,038
	1919	9	2	10	3	3	3	744	23,102	22,212	22,134	78	77,245	55,033
Pennsylvania.....	1929	72	207	1,100	1,089	20	1,069	566,323	1,631,096	2,219,496	2,077,762	141,734	6,469,246	4,249,760
	1927	66	237	1,107	836	31	805	593,913	1,605,802	1,845,639	1,733,212	112,427	5,230,368	3,384,729
	1919	114	94	353	223	32	191	154,368	397,623	650,207	638,430	11,727	1,620,947	970,740

See footnotes at end of table.

CENSUS OF MANUFACTURES: 1929

TABLE 2.—GENERAL STATISTICS, BY STATES: 1929, 1927, AND 1919—Continued

[See note at head of this table]

STATE	Cen- sus year	Num- ber of es- tab- lish- ments	Sala- ried officers and em- ploy- ees ¹	Wage earn- ers (aver- age for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products ²	Value added by manufac- ture ³
					Total	Prime mov- ers	Motors run by pur- chased energy			Total	Materials	Fuel and purchased energy		
Individual States—Con.														
Rhode Island	1929	7	0	38	14	-----	14	\$8,722	\$51,000	\$58,252	\$57,830	\$422	\$171,596	\$113,344
	1927	3	3	15	6	-----	6	7,315	25,822	9,310	9,045	265	55,072	45,702
	1919	6	8	19	11	-----	11	7,392	21,873	31,120	30,517	603	82,905	51,785
Tennessee	1929	10	31	125	65	-----	65	77,397	131,060	214,868	207,636	7,232	627,763	412,895
	1927	7	28	69	41	-----	41	57,090	74,298	158,082	155,402	2,620	393,818	235,730
	1919	7	12	35	9	-----	9	14,004	33,224	20,324	28,508	816	114,213	84,889
Texas	1929	30	68	269	149	-----	149	193,168	346,339	330,738	321,562	9,176	1,409,572	1,078,834
	1927	24	48	216	61	-----	61	99,624	290,592	318,135	297,532	20,003	692,734	674,599
	1919	7	15	28	6	-----	6	22,455	37,009	26,166	26,021	145	135,218	109,052
Washington	1929	25	47	151	44	-----	44	132,977	277,235	229,560	224,325	5,235	1,445,521	1,210,061
	1927	7	21	50	11	-----	11	15,175	103,151	98,766	97,309	1,457	305,746	266,980
	1919	5	1	29	2	-----	2	1,040	51,811	28,850	28,492	358	112,454	83,004
West Virginia	1929	7	8	41	35	-----	35	24,240	58,009	75,724	5,664	5,664	259,072	184,248
	1927	6	11	34	3	-----	3	29,000	47,005	51,710	49,045	2,665	162,717	111,007
	1919	5	2	5	2	-----	2	2,977	4,145	17,217	16,960	267	30,841	13,624
Wisconsin	1929	33	87	592	365	-----	365	237,442	631,610	821,146	804,305	16,841	2,329,567	1,508,421
	1927	25	152	988	347	-----	347	605,063	1,369,612	2,558,939	2,432,719	120,220	6,389,830	3,830,891
	1919	17	44	461	148	-----	148	95,020	308,299	491,439	481,694	9,845	1,140,121	648,682
Groups of States:														
Ariz., 1 est.; Utah, 4	1929	5	10	35	55	-----	55	24,208	71,509	54,720	52,055	2,665	386,413	331,093
Other States (Ark. 1 est.; Mont., 1; N. Dak., 2; Va., 3)	1929	7	13	80	61	-----	61	59,024	80,197	155,027	152,070	2,957	440,700	285,073
States not shown sepa- rately	1927	16	95	291	74	-----	74	228,438	411,126	381,290	343,993	37,297	1,044,604	1,563,314
	1919	24	60	155	121	-----	118	84,914	150,974	290,946	288,161	2,785	626,118	335,172

¹ Not including proprietors and firm members, as follows: For 1929, 597; 1927, 601; 1919, 624. The total numbers of persons engaged—proprietors and firm members, salaried officers and employees, and wage earners—as reported for the industry, are as follows: For 1929, 25,716; 1927, 22,071; 1919, 14,832.
² The figures for 1929 refer to sales (shipments or deliveries) by manufacturers; those for earlier years represent production. See GENERAL EXPLANATIONS—Value of Products.
³ Value of products less cost of materials, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.
⁴ Data for purchased power other than electric (power transmitted into the plant by belt or shaft) are included in the State items for 1919 but not in the United States totals.
⁵ Withheld from publication in order to avoid disclosing data for individual establishments.
⁶ District of Columbia, 4 establishments; Mississippi, 1; Nebraska, 2; New Hampshire, 1; North Dakota, 1; Oklahoma, 2; Virginia, 5.
⁷ Arkansas, 2 establishments; District of Columbia, 3; Florida, 1; Georgia, 2; Louisiana, 2; Maine, 2; Nebraska, 2; North Carolina, 2; North Dakota, 1; South Carolina, 2; Utah, 3; Virginia, 4.

TABLE 3.—PRODUCTS BY CLASS AND VALUE, FOR THE UNITED STATES: 1929

[The figures refer to sales (shipments or deliveries) by manufacturers. See GENERAL EXPLANATIONS—Value of Products. No comparable statistics are available for earlier years. See "Description of the Industry," p. 1356]

CLASS	Value	CLASS	Value
1. The sign industry, all products, total value	\$118,044,157	Signs and advertising novelties, all industries:	
2. Signs and advertising novelties	111,426,110	Aggregate value (sum of 2 and 4)	\$113,136,814
3. Other products (not normally belonging to the sign industry), and receipts for custom work and repairing	6,619,047	Electric signs, total	34,906,933
4. Signs and advertising novelties made as secondary products in other industries, value	1,711,704	Neon signs	11,373,028
		Other electric signs	23,533,905
		Other signs	39,708,075
		Advertising novelties	38,521,806

SIGNS AND ADVERTISING NOVELTIES

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TABLE 4.—PRODUCTS, BY CLASS AND VALUE, BY STATES: 1929

(The figures refer to sales (shipments or deliveries) by manufacturers. See GENERAL EXPLANATIONS—Value of Products. Statistics are given for all States which can be shown separately without disclosing data for individual establishments. Certain of the "Other States," however, reported larger values of the several classes of products than some of the States shown separately.)

CLASS	Value	CLASS	Value	CLASS	Value
Electric signs, total.....	\$34,906,933	Other signs—Continued.		Other signs—Continued.	
California.....	5,284,541	Colorado.....	\$405,995	West Virginia.....	\$200,208
Colorado.....	499,486	Connecticut.....	605,171	Washington.....	351,070
Connecticut.....	219,585	Delaware.....	78,271	Wisconsin.....	502,275
Illinois.....	6,757,873	District of Columbia.....	94,520	Other States (Mont., N. Dak., Utah, Va.).....	399,958
Indiana.....	229,269	Florida.....	308,413	Advertising novelties, total.....	38,521,800
Iowa.....	239,785	Georgia.....	197,855	California.....	510,816
Maryland.....	201,297	Illinois.....	5,342,261	Illinois.....	9,590,942
Massachusetts.....	434,163	Indiana.....	1,212,192	Iowa.....	1,511,651
Michigan.....	2,787,239	Iowa.....	452,664	Kentucky.....	184,728
Minnesota.....	237,971	Kansas.....	480,470	Maryland.....	55,500
Missouri.....	874,690	Kentucky.....	792,586	Massachusetts.....	538,171
Nebraska.....	440,201	Louisiana.....	49,909	Michigan.....	1,223,238
New Jersey.....	513,641	Maine.....	54,905	Minnesota.....	7,142,882
New York.....	6,599,024	Maryland.....	1,940,357	Missouri.....	908,283
Ohio.....	2,713,845	Massachusetts.....	383,400	New Jersey.....	3,315,431
Oklahoma.....	154,678	Michigan.....	1,410,160	New York.....	6,822,780
Oregon.....	700,043	Minnesota.....	862,964	Ohio.....	3,537,844
Pennsylvania.....	1,856,470	Mississippi.....	66,327	Pennsylvania.....	714,636
Rhode Island.....	58,196	Missouri.....	1,767,633	Texas.....	166,286
Tennessee.....	108,298	Nebraska.....	537,449	Washington.....	23,551
Texas.....	663,708	New Hampshire.....	118,025	Wisconsin.....	1,283,225
Other States (Ala., Ariz., Ark., D. C., Fla., Ga., Kans., Ky., La., Me., Miss., N. H., N. C., N. Dak., Utah, Va., Wash., Wis.).....	3,275,930	New Jersey.....	1,443,233	Other States (Ala., Ark., Colo., Conn., Fla., Ind., Kans., La., Me., Nebr., N. H., Okla., Oreg., R. I., Tenn., W. Va.).....	1,021,862
Other signs, total.....	39,708,075	New York.....	6,418,567		
Alabama.....	80,050	North Carolina.....	23,901		
California.....	1,304,876	Ohio.....	7,405,570		
		Oklahoma.....	222,762		
		Oregon.....	155,896		
		Pennsylvania.....	3,161,504		
		Rhode Island.....	59,498		
		Tennessee.....	129,842		
		Texas.....	663,427		

TABLE 5.—PRIME MOVERS, MOTORS, GENERATORS, AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY—NUMBER AND RATED CAPACITY OF PRIME MOVERS AND ELECTRIC MOTORS, 1929, 1927, 1925, 1919, AND 1914, AND OF GENERATORS, 1929, 1927, AND 1925; QUANTITY OF ELECTRIC ENERGY PURCHASED, 1929

TYPE	1929		1927		1925		1919		1914		PER CENT DISTRIBUTION OF RATED HORSEPOWER CAPACITY	
	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	1929	1919
		Horse-power		Horse-power		Horse-power		Horse-power		Horse-power		
Prime movers and electric motors driven by purchased energy, aggregate.....	5,924	19,627	3,996	15,325	2,847	12,550	1,677	7,714	1,098	7,345	100.0	100.0
Prime movers, total.....	31	5,254	34	5,365	31	3,573	49	3,188	71	3,987	26.8	41.2
Steam total.....	26	5,174	25	5,264	21	3,430	23	2,643	36	3,437	26.4	36.8
Engines.....	24	4,649	23	4,639	21	3,430	22	2,803	(1)	(1)	23.7	36.3
Turbines.....	2	525	2	625			1	40	(1)	(1)	2.7	0.5
Internal-combustion engines.....	5	80	8	91	10	143	23	299	34	520	0.4	3.9
Water wheels and water turbines.....			1	10			3	46	1	30		0.6
Electric motors driven by purchased energy.....	5,893	14,373	3,962	9,960	2,816	8,977	1,628	4,526	1,027	3,358	73.2	58.7
Electric motors, total.....	7,470	17,915	5,223	12,857	3,776	11,493	2,111	5,740	1,320	4,480	100.0	100.0
Driven by purchased energy.....	5,893	14,373	3,962	9,960	2,816	8,977	1,628	4,526	1,027	3,358	80.2	78.9
Driven by energy generated in establishments reporting.....	1,577	3,542	1,261	2,897	954	2,516	483	1,214	293	1,122	19.8	21.1
Electric generators.....	21	Kilowatts 3,184 Kilowatt-hours	25	3,350	18	2,280	(?)	(?)	(1)	(1)		
Electric energy purchased ¹		19,793,630		(1)		(1)		(?)		(1)		

¹ Not called for separately on schedule.
² Not called for on schedule.
³ This item covers the consumption of purchased electric energy for all purposes—power, heat, light, etc.
⁴ Data incomplete.

CENSUS OF MANUFACTURES: 1929

TABLE 6.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1929, 1925, 1919, 1914, AND 1909, AND BY STATES, 1929

[This table presents statistics for only those States for which figures can be given without disclosing data for individual establishments. The sum of the State items in any column is not, therefore, equal to the United States total at the head of the column. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures.]

STATE	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum	
		January	February	March	April	May	June	July	August	September	October	November	December		
United States:															
1929.....	20,000	<i>18,268</i>	18,642	18,883	19,378	19,917	20,237	20,352	20,535	20,067	21,142	21,139	20,835	86.4	
1925.....	15,128	<i>13,867</i>	<i>13,851</i>	14,643	15,106	15,321	15,358	15,386	15,169	15,377	15,587	15,948	15,925	86.9	
1919.....	10,432	<i>8,771</i>	<i>8,767</i>	9,319	9,672	10,020	10,353	10,778	11,130	11,269	11,628	11,741	11,730	74.7	
1914.....	9,566	<i>8,288</i>	<i>8,256</i>	9,282	9,613	9,868	9,927	9,639	9,611	9,734	9,704	9,497	9,373	93.2	
1909.....	5,540	<i>4,668</i>	5,040	5,187	5,454	5,576	5,609	5,591	5,610	5,717	5,841	5,989	5,892	83.1	
Alabama.....	24	<i>24</i>	<i>23</i>	25	24	24	25	24	25	26	25	24	<i>23</i>	88.5	
California.....	853	<i>843</i>	<i>841</i>	839	850	<i>856</i>	<i>843</i>	850	842	886	926	927	931	89.8	
Colorado.....	126	<i>114</i>	<i>114</i>	120	126	124	124	125	120	130	132	138	133	82.6	
Connecticut.....	138	<i>98</i>	<i>96</i>	109	115	150	157	161	144	152	157	158	169	69.0	
Delaware.....	21	<i>21</i>	<i>21</i>	21	21	21	21	21	21	21	21	21	21		
District of Columbia.....	27	<i>22</i>	<i>25</i>	25	25	25	31	82	31	30	29	28	26	68.8	
Florida.....	203	<i>145</i>	<i>138</i>	129	156	173	173	190	203	230	254	292	348	37.1	
Georgia.....	55	<i>56</i>	<i>56</i>	56	56	56	55	55	55	55	55	54	54	96.4	
Illinois.....	3,321	<i>3,014</i>	<i>3,051</i>	3,081	3,124	3,267	3,406	3,423	3,411	3,512	3,496	3,594	3,489	83.9	
Indiana.....	316	<i>268</i>	<i>283</i>	301	306	324	370	351	347	320	307	331	308	72.0	
Iowa.....	321	<i>221</i>	<i>225</i>	243	275	297	318	369	393	410	399	391	306	53.9	
Kansas.....	79	<i>63</i>	<i>67</i>	70	81	87	85	89	89	80	78	83	75	70.8	
Kentucky.....	243	<i>229</i>	<i>249</i>	252	265	265	234	235	245	240	236	231	235	86.4	
Louisiana.....	39	<i>31</i>	<i>41</i>	31	40	36	39	43	41	42	39	39	43	72.1	
Maine.....	34	<i>30</i>	<i>24</i>	29	33	36	35	33	34	33	33	36	47	51.1	
Maryland.....	610	<i>566</i>	<i>582</i>	588	587	583	598	648	628	618	649	660	613	85.8	
Massachusetts.....	359	<i>361</i>	<i>293</i>	310	337	353	361	358	368	364	392	394	413	70.9	
Michigan.....	834	<i>810</i>	<i>787</i>	854	847	870	899	899	866	803	733	784	808	87.1	
Minnesota.....	1,915	<i>1,641</i>	<i>1,847</i>	1,795	1,824	1,839	1,859	1,865	1,910	1,952	2,059	2,138	2,251	72.9	
Mississippi.....	21	<i>21</i>	<i>21</i>	21	21	21	21	21	21	21	21	21	21		
Missouri.....	592	<i>537</i>	<i>542</i>	600	605	630	629	623	600	593	578	575	589	85.2	
Nebraska.....	134	<i>99</i>	<i>101</i>	126	140	152	169	154	142	142	141	132	113	59.3	
New Hampshire.....	32	<i>30</i>	<i>30</i>	31	33	34	33	31	31	34	34	34	34	88.2	
New Jersey.....	1,115	<i>1,099</i>	<i>1,060</i>	1,085	1,082	1,106	1,115	1,094	1,146	1,147	1,156	1,144	1,118	93.6	
New York.....	3,293	<i>3,200</i>	<i>3,237</i>	3,236	3,247	3,321	3,369	3,335	3,378	3,273	3,335	3,304	3,294	94.5	
North Carolina.....	25	<i>23</i>	<i>22</i>	25	25	26	26	<i>21</i>	23	28	27	24	25	75.0	
Ohio.....	2,593	<i>2,268</i>	<i>2,376</i>	2,378	2,525	2,547	2,558	2,589	2,707	2,806	2,943	2,823	2,610	76.7	
Oklahoma.....	98	<i>75</i>	<i>83</i>	85	97	105	105	100	104	104	105	103	108	69.4	
Oregon.....	133	<i>122</i>	<i>123</i>	129	144	141	136	136	138	136	128	132	120	84.7	
Pennsylvania.....	1,100	<i>1,021</i>	<i>1,035</i>	1,063	1,099	1,131	1,149	1,127	1,107	1,123	1,134	1,116	1,111	88.9	
Rhode Island.....	38	<i>38</i>	<i>38</i>	38	37	37	37	37	37	38	38	38	38	97.4	
Tennessee.....	125	<i>126</i>	<i>126</i>	127	125	129	125	125	114	118	124	123	132	86.4	
Texas.....	260	<i>232</i>	<i>238</i>	247	251	256	265	263	277	277	282	275	279	78.6	
Washington.....	151	<i>121</i>	<i>121</i>	127	146	149	146	145	153	147	178	187	188	64.4	
West Virginia.....	41	<i>33</i>	<i>32</i>	35	35	43	41	39	41	48	48	46	41	66.7	
Wisconsin.....	592	<i>569</i>	<i>561</i>	575	589	583	584	593	594	610	619	623	619	90.0	

SODA-WATER APPARATUS

Description of the industry.—The establishments in this industry are engaged primarily in the manufacture of complete soda fountains, and of tanks, siphons, and other parts and accessories.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1929

[Data for establishments with products under \$5,000 in value included for 1919 and prior years but not for 1921 and subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²	Horsepower
1929	54	2,764	\$3,921,538	\$10,489,871	\$24,509,783	\$14,019,912	5,271
1927	48	2,838	4,222,944	10,390,971	23,929,068	13,538,097	5,042
1925	60	2,372	3,028,340	8,632,026	22,061,816	13,396,780	4,180
1923	66	2,659	3,779,476	6,712,374	19,169,234	11,456,860	4,288
1921	62	2,144	3,047,981	6,495,791	15,407,131	8,911,340	(³)
1919	66	2,699	3,232,398	6,626,868	15,185,370	8,558,522	4,131
1914	67	2,229	1,661,245	3,833,076	8,781,437	4,998,361	3,705
1909	63	1,797	1,239,450	2,442,538	6,555,697	4,113,059	2,873
1904	37	1,469	884,705	1,923,835	4,634,265	2,710,430	1,475
1899	30	963	549,939	997,436	3,014,493	2,018,057	1,019
PER CENT OF INCREASE OR DECREASE (—)							
1927-1929	(⁴)	-2.6	-7.1	1.0	2.4	3.6	4.5
1925-1927	(⁴)	19.6	16.4	20.4	8.6	1.0	20.6
1923-1925	(⁴)	-10.8	-4.0	23.6	21.3	17.0	-1.4
1921-1923	(⁴)	24.0	24.0	3.3	17.9	28.6	
1919-1921	(⁴)	-17.5	-5.7	-2.0	1.5	4.1	
1919-1929	(⁴)	6.3	21.3	58.3	61.4	63.8	27.6
1909-1919	(⁴)	44.6	160.8	171.3	131.6	108.1	43.8
1899-1909	(⁴)	86.6	125.4	144.9	117.4	103.8	181.9

¹ For 1929, manufacturers' sales (shipments or deliveries); for earlier years, production. See GENERAL EXPLANATIONS—Value of Products.
² Includes value of miscellaneous products, normally belonging to other industries, made as secondary products by establishments engaged primarily in the manufacture of soda-water apparatus, as follows: 1929, \$2,075,068; 1927, \$4,166,650; 1925, \$4,350,921; corresponding amounts for earlier years not available. Does not include following values of soda-water apparatus made as secondary products by establishments engaged primarily in other lines of manufacture: 1929, \$201,156; 1927, \$665,148; 1925, \$207,438; 1923, \$58,800; 1921, \$248,417; 1919, \$1,657,841; corresponding amounts for earlier years not available.
³ Value of products less cost of materials, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.
⁴ Not called for on schedule.
⁵ Per cent not computed where base is less than 100.

TABLE 2.—GENERAL STATISTICS, BY STATES: 1929, 1927, AND 1919

[This table presents statistics separately for each State for which figures can be given without disclosing data for individual establishments, and for the remaining States in groups. Data for establishments with products under \$5,000 in value are included for 1919 but not for subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

STATE	Census year	Number of establishments	Salaried officers and employees ¹	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products ²	Value added by manufacture ³
					Total	Prime movers	Motors run by purchased energy			Total	Materials	Fuel and purchased energy		
United States	1929	54	839	2,764	5,271	775	4,496	\$2,188,822	\$3,921,538	\$10,489,871	\$10,306,394	\$184,477	\$24,509,783	\$14,019,912
	1927	48	667	2,838	5,042	725	4,317	1,677,576	4,222,944	10,390,971	10,185,690	205,281	23,929,068	13,538,097
	1919	66	806	2,599	4,131	1,116	3,015	1,380,385	3,232,398	6,626,868	6,487,216	139,652	15,185,370	8,558,502
Individual States:														
California	1929	3	5	20	26		26	17,085	36,018	92,237	91,721	516	195,329	103,062
	1927	8	229	1,053	2,528	450	2,078	575,430	1,979,770	4,225,605	4,118,948	106,657	11,009,991	6,775,386
	1919	9	235	1,227	2,198	400	1,798	637,550	2,018,196	5,593,048	5,508,713	84,335	12,698,261	7,165,213
Illinois	1929	18	52	134	285		285	183,455	254,152	778,445	769,444	9,001	1,504,391	725,946
	1927	16	48	111	125		125	157,196	233,833	551,753	547,811	6,942	1,269,011	714,258
	1919	24	32	102	132	10	122	53,727	134,669	472,570	467,950	4,620	868,453	395,883
New York	1929	13	483	1,134	1,335	75	1,260	1,158,083	1,084,374	3,966,145	3,928,240	37,905	8,487,239	4,521,094
Groups of States:														
Md., 1 est.; N. J., 1; Ohio, 7; Pa., 4	1929	12	73	423	1,097	250	847	252,769	567,224	1,427,439	1,397,041	30,398	3,321,833	1,894,394
Other States (Colo., 1; Ky., 1; Mass., 2; Mich., 2; Mo., 1; Okla., 1; Tex., 1; Va., 1; Wash., 1; Wis., 1)	1929	12	73	423	1,097	250	847	252,769	567,224	1,427,439	1,397,041	30,398	3,321,833	1,894,394
States not shown separately	1927	23	384	1,600	2,719	325	2,394	882,830	1,970,913	4,243,170	4,129,166	114,004	9,961,796	5,718,626
	1919	42	774	2,497	4,014	1,106	2,908	1,326,658	3,087,729	6,154,298	6,019,266	135,032	14,316,917	8,162,619

¹ Not including proprietors and firm members, as follows: For 1929, 21; 1927, 13; 1919, 43. The total numbers of persons engaged—proprietors and firm members, salaried officers and employees, and wage earners—as reported for the industry, are as follows: For 1929, 3,624; 1927, 3,518; 1919, 3,448.
² The figures for 1929 refer to sales (shipments or deliveries) by manufacturers; those for earlier years represent production. See GENERAL EXPLANATIONS—Value of Products.
³ Value of products less cost of materials, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.
⁴ See footnote 2, Table 1.
⁵ Data for purchased power other than electric (power transmitted into the plant by belt or shaft) are included in the State items for 1919 but not in the United States totals.
⁶ California, 1 establishment; Colorado, 1; Kentucky, 1; Massachusetts, 3; Michigan, 1; Missouri, 1; New Jersey, 3; Ohio, 4; Oklahoma, 1; Pennsylvania, 4; Texas, 1; Virginia, 1; Washington, 1.
⁷ California, 3 establishments; Colorado, 2; Connecticut, 1; Illinois, 12; Maryland, 1; Massachusetts, 4; Michigan, 1; Minnesota, 1; Missouri, 1; New Jersey, 6; Ohio, 2; Pennsylvania, 6; Texas, 1; Utah, 1.

CENSUS OF MANUFACTURES: 1929

TABLE 3.—PRIME MOVERS, MOTORS, GENERATORS, AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY—NUMBER AND RATED CAPACITY OF PRIME MOVERS AND ELECTRIC MOTORS, 1929, 1927, 1925, 1919, AND 1914, AND OF GENERATORS, 1929, 1927, AND 1925; QUANTITY OF ELECTRIC ENERGY PURCHASED, 1929

TYPE	1929		1927		1925		1919		1914		PER CENT DISTRIBUTION OF RATED HORSEPOWER CAPACITY	
	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	1929	1919
Prime movers and electric motors driven by purchased energy, aggregate.....	1,035	Horse-power 5,271	1,013	Horse-power 5,042	604	Horse-power 4,180	431	Horse-power 4,131	306	Horse-power 3,705	100.0	100.0
Prime movers, total.....	6	775	5	725	6	610	11	1,116	16	1,915	14.7	27.0
Steam engines.....	6	775	5	725	5	580	6	781	11	1,764	14.7	18.9
Internal-combustion engines.....					1	30	5	335	5	191		8.1
Electric motors driven by purchased energy.....	1,029	4,496	1,008	4,317	598	3,570	420	3,015	290	1,790	85.3	73.0
Electric motors, total.....	1,078	4,814	1,045	4,704	624	3,847	460	3,570	386	2,797	100.0	100.0
Driven by purchased energy.....	1,029	4,496	1,008	4,317	598	3,570	420	3,015	290	1,790	93.4	84.5
Driven by energy generated in establishments reporting.....	49	318	37	387	26	277	40	555	96	1,007	6.6	15.5
Electric generators.....	4	Kilowatts 310 Kilowatt-hours 4,887,370	2	Kilowatts 350	4	Kilowatts 262	(1)	(1)	(1)	(1)		
Electric energy purchased ¹				(2)		(2)		(1)		(1)		

¹ Not called for on schedule.
² This item covers the consumption of purchased electric energy for all purposes—power, heat, light, etc.
³ Data incomplete.

TABLE 4.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1929, 1925, 1919, 1914, AND 1909, AND BY STATES, 1929

[This table presents statistics for only those States for which figures can be given without disclosing data for individual establishments. The sum of the State items in any column is not, therefore, equal to the United States total at the head of the column. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures.]

STATE	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum
		January	February	March	April	May	June	July	August	September	October	November	December	
United States:														
1929.....	2,764	2,418	2,459	2,530	2,776	2,885	2,918	3,043	2,968	2,889	2,776	2,831	2,672	79.5
1925.....	2,372	2,400	2,281	2,403	2,594	2,568	2,528	2,367	2,277	2,363	2,330	2,370	2,365	85.7
1919.....	2,596	1,977	2,335	2,653	2,768	2,847	2,759	2,721	2,650	2,536	2,591	2,623	2,678	69.4
1914.....	2,229	2,390	2,271	2,409	2,489	2,477	2,342	2,157	2,078	1,650	2,097	2,064	2,096	73.3
1909.....	1,797	1,578	1,681	1,884	2,017	2,128	1,979	1,708	1,641	1,714	1,753	1,777	1,794	72.4
California.....	20	20	20	20	20	20	22	22	20	20	19	19	19	86.4
Illinois.....	1,053	968	1,008	1,021	1,047	1,081	1,127	1,132	1,115	1,101	1,022	1,042	976	85.5
New York.....	134	116	123	134	150	142	139	134	135	143	133	129	125	76.7

SPORTING AND ATHLETIC GOODS, NOT INCLUDING FIREARMS OR AMMUNITION

Description of the industry.—This industry embraces establishments engaged primarily in the manufacture of a group of products which are not clearly defined in all respects but which are designated in general as sporting and athletic goods. These comprise not only such specific sporting equipment as that for fishing and hunting (except firearms and ammunition) and for athletic games and sports, such as golf, baseball, football, tennis, skating, etc., but also related

commodities such as exercising machines and other gymnasium equipment and shooting-gallery equipment (not including firearms and ammunition). Clothing and footwear made specifically for sporting and athletic purposes, such as hunting coats and boots, bathing suits, sweaters, tennis shoes, leggings, etc., do not come within the scope of this industry classification but are assigned to the clothing industries, the knit-goods industry, the boot and shoe industry, etc.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1929

[Data for establishments with products under \$5,000 in value included for 1919 and prior years but not for 1921 and subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers for products, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²	Horsepower
1929	242	10,793	\$13,135,484	\$24,482,236	\$53,258,728	\$33,806,492	18,039
1927	188	9,689	11,535,480	19,393,061	44,942,778	25,549,117	13,484
1925	181	8,724	10,262,208	17,874,904	42,629,278	24,754,874	11,550
1923	170	9,683	10,440,207	18,482,511	41,797,075	23,304,564	11,091
1921	152	7,093	7,400,470	15,401,261	31,811,174	16,409,913	(3) 6,780
1919	188	6,412	5,752,963	11,989,388	23,839,991	11,870,603	4,116
1914	162	5,602	2,770,891	6,951,870	13,234,677	6,282,807	2,978
1909	180	5,321	2,155,434	5,564,766	11,052,266	5,487,520	2,747
1904	152	4,260	1,641,486	2,963,138	7,032,224	4,069,086	1,035
1899	143	2,225	809,687	1,801,920	3,628,496	1,826,667	
PER CENT OF INCREASE OR DECREASE (—)							
1927-1929	28.7	11.4	13.3	26.2	29.7	32.3	33.8
1925-1927	3.9	11.1	13.0	8.5	5.4	3.2	16.7
1923-1925	6.5	-8.9	-1.7	-3.3	2.0	8.2	4.1
1921-1923	11.8	37.1	41.1	20.1	31.4	42.0	-----
1919-1921	-19.1	10.2	28.6	28.7	33.4	38.2	-----
1919-1929	28.7	68.3	123.3	104.5	144.5	184.8	166.1
1909-1919	4.4	20.5	165.7	115.1	115.7	116.3	127.7
1899-1909	25.9	139.1	167.4	208.8	204.6	200.4	187.7

¹ The figures given for 1929 refer to sales (shipments or deliveries) by manufacturers; those for earlier years represent production. See GENERAL EXPLANATIONS—Value of Products.

² Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

³ Not called for on schedule.

CENSUS OF MANUFACTURES: 1929

TABLE 2.—GENERAL STATISTICS, BY STATES: 1929, 1927, AND 1919

[This table presents statistics separately for each State for which figures can be given without disclosing data for individual establishments, and for the remaining States in groups. Data for establishments with products under \$5,000 in value are included for 1919 but not for subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

STATE	Census year	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products ¹	Value added by manufacture ²
					Total	Prime movers	Motors run by purchased energy			Total	Materials and containers	Fuel and purchased energy		
United States.....	1929	242	1,835	10,793	18,039	2,808	15,231	\$4,530,710	\$13,135,484	\$24,482,236	\$23,809,623	\$672,613	\$58,288,728	\$33,806,492
	1927	188	1,553	9,689	13,484	2,195	11,289	3,516,550	11,595,480	19,393,661	18,886,683	509,978	44,942,778	25,649,117
	1919	188	935	6,412	6,780	3,045	3,735	1,605,007	5,752,963	11,969,388	11,730,776	238,612	23,830,991	11,870,603
Individual States:														
California.....	1929	12	11	42	51	-----	51	33,475	56,807	125,098	121,787	3,311	291,652	166,554
	1927	10	21	81	46	-----	46	44,465	94,263	186,571	184,439	2,132	381,858	195,287
	1919	6	3	15	11	-----	11	3,049	11,498	20,381	19,849	632	51,923	31,542
Colorado.....	1929	5	10	64	47	-----	47	22,431	51,346	21,541	19,716	1,825	118,644	97,103
	1927	5	5	42	40	-----	40	6,313	37,811	15,182	14,553	629	90,327	75,145
Connecticut.....	1929	10	130	1,244	3,105	532	2,573	285,036	1,533,362	1,658,562	1,509,397	149,105	4,815,089	3,156,527
Illinois.....	1929	34	203	1,477	2,135	80	2,055	642,582	2,253,531	4,380,024	4,292,039	87,985	9,224,077	4,844,053
	1927	26	146	1,159	1,613	80	1,533	417,253	1,644,921	2,903,049	2,905,889	69,160	6,987,823	4,018,774
	1919	33	110	471	526	2	524	216,429	490,484	1,163,607	1,134,868	28,799	2,309,763	1,140,101
Indiana.....	1929	5	51	294	166	-----	166	121,030	292,547	270,619	261,248	9,371	793,015	522,390
	1927	5	51	221	138	-----	138	130,985	232,063	296,619	291,037	5,582	753,405	496,786
	1919	5	50	234	153	100	83	71,820	170,638	394,645	355,955	8,690	511,394	140,749
Maine.....	1929	5	6	52	144	-----	144	8,329	50,227	50,574	47,320	3,245	141,624	91,050
	1927	4	4	78	249	-----	249	13,554	77,799	107,971	104,372	3,599	236,371	128,400
	1919	4	8	26	90	20	70	8,078	20,330	28,510	27,350	1,160	86,168	57,658
Massachusetts.....	1929	14	208	1,778	5,120	709	4,411	748,311	2,419,564	5,277,631	5,144,812	132,719	12,322,716	7,045,185
	1927	15	214	1,962	4,205	749	3,456	491,563	2,697,788	3,068,197	3,822,955	145,242	8,188,547	4,220,350
	1919	14	179	1,307	1,912	894	1,018	285,481	1,247,570	3,003,502	2,938,946	64,556	5,774,346	2,770,844
Michigan.....	1929	10	181	516	939	110	829	442,232	613,749	784,449	748,125	36,324	2,772,175	1,987,726
	1927	5	152	408	436	125	311	250,329	484,979	477,827	460,691	17,136	1,756,048	1,278,821
	1919	12	43	373	804	570	234	66,533	331,084	331,417	316,810	14,607	961,558	630,141
Minnesota.....	1929	6	23	69	196	-----	196	40,292	74,002	185,237	181,051	4,186	386,304	201,067
	1927	5	20	109	243	-----	243	31,900	121,832	191,379	188,054	3,325	497,578	300,199
Missouri.....	1929	10	85	470	177	-----	177	152,517	375,089	722,934	713,171	9,763	1,634,894	911,960
	1927	8	76	345	94	-----	94	117,606	288,602	621,078	612,969	8,100	1,273,183	652,105
New Jersey.....	1929	12	55	245	459	-----	459	205,932	285,938	803,244	784,289	18,955	1,724,512	921,268
	1927	10	64	165	348	-----	348	224,179	198,762	476,223	462,835	13,888	1,108,559	632,335
	1919	13	27	67	96	-----	96	70,338	54,855	153,555	148,702	4,853	415,308	261,753
New York.....	1929	46	183	1,330	1,306	130	1,170	395,066	1,497,562	2,578,033	2,524,978	53,055	6,212,019	3,633,986
	1927	41	179	1,090	709	117	502	353,483	1,200,835	1,743,561	1,697,719	45,842	4,263,921	2,520,860
	1919	49	128	892	590	122	447	184,561	852,312	1,867,020	1,832,465	35,455	3,546,149	1,678,229
Ohio.....	1929	19	283	1,415	1,711	485	1,226	713,118	1,883,573	3,213,115	3,137,050	76,065	8,687,750	5,474,636
	1927	15	282	1,281	1,799	395	1,404	605,095	1,609,032	2,792,897	2,736,694	56,303	7,162,469	4,359,572
	1919	11	98	762	590	309	281	184,600	662,114	1,198,029	1,178,006	20,023	2,853,786	1,655,757
Oregon.....	1929	5	3	32	11	1	10	4,354	24,837	21,705	21,299	406	75,937	54,232
	1927	3	3	23	5	-----	5	4,320	16,775	13,073	12,714	359	49,022	35,949
Rhode Island.....	1929	4	62	344	486	-----	486	196,205	415,798	588,982	561,333	27,649	1,470,960	890,978
Tennessee.....	1929	4	13	129	341	195	146	23,120	95,211	105,128	160,296	4,832	361,376	196,248
	1927	4	15	181	224	140	84	39,890	103,080	240,766	240,147	6,619	534,466	287,700
Washington.....	1929	8	12	43	45	-----	45	22,620	49,670	140,662	145,211	1,451	318,515	169,853
	1927	6	15	36	48	-----	48	31,950	41,608	141,509	139,500	2,009	309,015	167,566
Wisconsin.....	1929	8	25	224	112	-----	112	55,965	150,818	190,661	183,901	6,760	586,312	395,651
	1927	5	15	254	80	-----	80	42,258	182,431	208,305	202,786	5,519	592,221	383,916
Groups of States:														
Ark., 1 est.; Miss., 1;	1929	4	3	26	49	25	24	8,325	17,083	28,006	26,148	1,858	79,033	51,027
Tex., 2.....														
D. C., 1 est.; Md., 1;	1929	8	108	608	566	266	300	228,889	556,983	2,030,315	2,006,146	24,169	3,443,682	1,413,367
Pa., 6.....														
Ky., 5 est.; N. C., 1;	1929	7	42	273	665	75	590	91,033	293,471	631,342	619,460	11,832	1,692,277	970,935
S. C., 1.....														
Other States (Idaho, 1 est.; Iowa, 1; Mont., 1; N. H., 1; Vt., 2).....	1929	6	38	298	298	200	8	88,948	220,256	608,474	600,637	7,637	1,210,165	610,601
States not shown separately.	1927	21	287	2,274	3,207	589	2,618	710,397	2,592,299	4,967,454	4,830,429	128,025	10,767,365	5,799,911
	1919	40	287	2,175	1,999	1,028	971	514,308	1,897,059	3,837,762	3,777,825	59,937	7,328,591	3,491,829

¹ Not including proprietors and firm members. The total numbers of persons engaged and the numbers of proprietors and firm members, as reported for this industry, are as follows: For 1929, total, 12,739; proprietors and firm members, 111. For 1927, total, 11,332; proprietors and firm members, 90. For 1919, total, 7,490; proprietors and firm members, 143.

² The figures given for 1929 refer to sales (shipments or deliveries) by manufacturers; those for earlier years represent production. See GENERAL EXPLANATIONS—Value of Products.

³ Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

⁴ Data for purchased power other than electric (power transmitted into the plant by belt or shaft) are included in the State items for 1919 but not in the United States totals.

⁵ Connecticut, 5 establishments; Kentucky, 2; Mississippi, 1; New Hampshire, 1; North Carolina, 1; Pennsylvania, 5; Rhode Island, 3; Texas, 2; Vermont, 1.

⁶ Colorado, 2 establishments; Connecticut, 5; District of Columbia, 1; Georgia, 1; Kentucky, 4; Minnesota, 3; Missouri, 3; New Hampshire, 1; Oregon, 1; Pennsylvania, 5; Rhode Island, 3; Vermont, 4; Virginia, 1; Washington, 2; Wisconsin, 4.

SPORTING AND ATHLETIC GOODS

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TABLE 3.—PRODUCTS, BY CLASS AND VALUE, FOR THE UNITED STATES: 1929 AND 1927

(The figures given for 1929 refer to sales (shipments or deliveries) by manufacturers; those for earlier years represent production. See GENERAL EXPLANATIONS—Value of Products)

CLASS	1929	1927	Per cent of increase or decrease (-)	CLASS	1929	1927	Per cent of increase or decrease (-)
1. "Sporting and athletic goods, not including firearms or ammunition" industry, all products, total value.....	\$58,288,728	\$44,942,778	29.7	Sporting and athletic goods, not including firearms or ammunition, all industries: Total value (sum of 2 and 4).....	\$56,255,702	\$42,229,508	33.3
2. Sporting and athletic goods, not including firearms or ammunition.....	52,971,247	39,516,476	34.0	Golf goods.....	21,067,216	12,263,162	71.8
3. Other products (not normally belonging to the industry), and receipts for repair work.....	5,317,481	5,426,302	-2.0	Tennis goods.....	4,659,543	3,227,552	44.1
4. Sporting and athletic goods (not including firearms or ammunition) made as secondary products in other industries, value.....	3,314,455	2,713,092	22.2	Fishing tackle.....	9,769,370	7,563,276	19.8
				Skates, including parts.....	4,872,593	4,819,226	1.1
				Other sporting and athletic goods, not including firearms or ammunition.....	15,934,980	14,355,652	15.9

TABLE 4.—PRODUCTS, BY CLASS, KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1929

[See headnote, Table 3]

CLASS	1929			CLASS	1929		
	Unit of quantity	Quantity	Value		Unit of quantity	Quantity	Value
Golf goods, total.....			\$21,067,216	Football, basket-ball, boxing, etc., goods—Con. Pads, helmets, and guards for football, basket ball, and soccer.....			\$1,410,184
Balls.....	Dozen.....	2,819,400	7,460,200	Other football and basket-ball goods.....			669,912
Clubs.....	Number.....	3,108,380	9,722,610	Striking bags.....	Number.....	70,980	193,203
Shafts.....	Number.....	2,220,449	1,573,609	Boxing gloves.....	Sets of 4.....	60,979	440,730
Caddy bags—				Fishing tackle, total.....			9,769,370
Number reported.....	Number.....	430,357	1,709,561	Rods.....	Number.....	1,495,377	2,448,764
Number not reported.....			198,599	Reels.....	Number.....	1,137,900	1,515,871
Other golf goods.....			402,667	Other tackle (bait, trolling spoons, hooks, leaders, etc.).....			5,120,799
Tennis goods.....			4,659,543	Rod mountings, and parts of fishing rods and reels.....			374,936
Baseball goods, total.....			6,699,087	Skates, total.....			4,872,593
Balls (including playground balls).....	Dozen.....	709,552	3,261,411	Roller.....	Pairs.....	2,614,944	2,925,034
Bats.....	Number.....	1,819,667	1,050,639	Ice.....	Pairs.....	684,904	1,782,172
Masks.....	Number.....	35,690	110,847	Parts.....			165,387
Mitts and gloves.....	Number.....	932,157	1,829,035	Gymnasium equipment.....			1,073,082
Other baseball goods.....			456,156	Equipment for hunting and shooting, not including firearms or ammunition.....			1,129,756
Football, basket-ball, boxing, etc., goods, total.....			5,769,034	Other sporting and athletic goods.....			1,267,621
Footballs.....	Number.....	530,631	1,410,781				
Basket balls and other inflated balls.....	Dozen.....	115,205	1,641,224				

CENSUS OF MANUFACTURES: 1929

TABLE 5.—PRIME MOVERS, MOTORS, GENERATORS, AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY—NUMBER AND RATED CAPACITY OF PRIME MOVERS AND ELECTRIC MOTORS, 1929, 1927, 1925, 1919, AND 1914, AND OF GENERATORS, 1929, 1927, AND 1925; QUANTITY OF ELECTRIC ENERGY PURCHASED, 1929

TYPE	1929		1927		1925		1919		1914		PER CENT DISTRIBUTION OF RATED HORSEPOWER CAPACITY	
	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	1929	1919
Prime movers and electric motors driven by purchased energy, aggregate.....	3,608	Horse-power 18,039	2,447	Horse-power 13,484	1,621	Horse-power 11,550	693	Horse-power 6,780	331	Horse-power 4,116	100.0	100.0
Prime movers, total.....	36	2,803	30	2,195	36	2,860	42	3,045	54	2,400	15.0	44.9
Steam, total.....	23	2,131	15	1,420	16	2,050	17	2,190	22	1,693	11.8	32.3
Engines.....	19	1,603	12	1,395	16	2,050	17	2,190	(1)	(1)	9.4	32.3
Turbines.....	4	433	3	34					(1)	(1)	2.4	
Internal-combustion engines.....	9	307	7	321	8	320	16	275	23	302	1.7	4.1
Water wheels and water turbines.....	4	370	8	445	12	490	9	580	9	405	2.1	8.0
Electric motors driven by purchased energy.....	3,572	15,231	2,417	11,289	1,585	8,081	651	3,735	277	1,718	84.4	55.1
Electric motors, total.....	3,952	16,892	2,694	12,790	1,752	9,260	837	4,265	421	3,130	100.0	100.0
Driven by purchased energy.....	3,572	15,231	2,417	11,289	1,585	8,081	651	3,735	277	1,718	90.2	87.6
Driven by energy generated in establishments reporting.....	380	1,661	277	1,501	167	879	186	530	144	1,414	9.8	12.4
Electric generators ¹	14	Kilowatts 1,370	2	Kilowatts 205	7	Kilowatts 547						
Electric energy purchased ²		Kilowatt-hours 14,984,800										

¹ Not called for on schedule.
² Data for electric generators not called for on schedule prior to 1925.
³ This item covers the consumption of purchased electric energy for all purposes—power, heat, light, etc. No comparable figures for years prior to 1929.

TABLE 6.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1929, 1925, 1919, 1914, AND 1909, AND BY STATES, 1929

[This table presents statistics for only those States for which figures can be given without disclosing data for individual establishments. The sum of the State items in any column is not, therefore, equal to the United States total at the head of the column. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures]

STATE	Average number employed during year	NUMBER EMPLOYED ON 16TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Percent minimum is of maximum
		January	February	March	April	May	June	July	August	September	October	November	December	
United States:														
1929.....	10,763	11,029	11,075	11,200	11,190	10,050	10,694	10,447	<i>10,300</i>	10,484	10,643	10,686	10,823	92.0
1925.....	8,724	8,576	8,824	9,057	9,129	8,975	8,794	8,492	8,310	<i>8,305</i>	8,557	8,774	8,896	91.0
1919.....	6,412	<i>5,633</i>	5,874	6,023	6,231	6,263	5,956	6,340	<i>6,506</i>	6,612	<i>6,859</i>	7,139	7,508	75.0
1914.....	5,602	5,893	5,856	5,961	5,478	5,501	5,647	5,407	<i>5,175</i>	5,416	5,595	5,669	5,696	86.8
1909.....	5,321	5,369	5,331	5,501	5,585	5,478	5,338	5,063	<i>4,694</i>	5,142	5,335	5,422	5,604	83.8
California.....	42	39	41	49	49	44	40	41	46	44	48	27	37	55.1
Colorado.....	64	64	63	69	72	66	67	66	64	69	61	58	55	76.4
Connecticut.....	1,244	1,280	1,287	1,259	1,237	1,221	<i>1,204</i>	1,221	1,217	1,273	1,222	1,236	1,256	93.3
Illinois.....	1,477	1,473	1,472	1,474	1,479	<i>1,451</i>	1,452	1,465	1,495	1,507	1,515	1,470	1,462	95.3
Indiana.....	204	209	225	229	217	210	224	221	200	180	169	167	188	72.9
Maine.....	42	51	52	53	40	43	45	60	50	57	62	54	55	72.6
Massachusetts.....	1,775	1,857	1,803	1,926	1,938	1,894	1,765	1,685	<i>1,676</i>	1,605	1,653	1,741	1,800	81.3
Michigan.....	516	494	501	542	569	564	559	489	<i>477</i>	502	507	503	491	83.8
Minnesota.....	69	60	54	61	72	66	66	63	63	66	75	85	106	51.4
Missouri.....	470	452	439	438	455	438	423	423	<i>420</i>	448	420	473	463	72.0
New Jersey.....	245	233	236	248	261	269	262	257	252	256	239	223	200	74.3
New York.....	1,330	1,380	1,392	1,437	1,381	1,310	1,291	1,292	<i>1,267</i>	1,233	1,343	1,305	1,272	88.2
Ohio.....	1,415	1,465	<i>1,475</i>	1,474	1,467	1,469	1,452	1,341	<i>1,354</i>	1,378	1,353	<i>1,338</i>	1,416	90.7
Oregon.....	32	30	30	30	31	31	31	35	36	38	31	33	31	78.9
Rhode Island.....	344	350	358	341	345	345	331	<i>326</i>	336	344	345	355	349	91.1
Tennessee.....	129	130	129	130	134	128	121	122	<i>120</i>	131	131	138	137	87.0
Washington.....	43	44	45	37	30	38	39	42	43	50	64	48	41	66.7
Wisconsin.....	224	218	227	232	224	227	222	211	<i>203</i>	205	227	240	250	79.3

STATIONERY GOODS, NOT ELSEWHERE CLASSIFIED

Description of the industry.—The establishments classified in this industry are engaged primarily in the manufacture of papeterie and other stationers' specialties, inkstands, penholders, desk pads, calendars, copying devices, school supplies, etc.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1929

[Data for establishments with products under \$5,000 in value included for 1919 and prior years but not for 1921 and subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers for products, fuel, and purchased electric energy.	Value of products ¹	Value added by manufacture ²	Horsepower
1929	203	11,078	\$12,429,726	\$32,177,887	\$74,062,047	\$41,584,160	11,523
1927	194	8,987	9,791,788	27,016,345	56,987,490	29,971,142	8,891
1925	217	11,399	12,076,257	31,108,376	67,809,267	36,709,891	10,970
1923	225	13,314	14,027,838	34,713,818	77,688,935	42,975,117	11,539
1921	221	11,285	12,399,283	29,695,923	64,598,978	34,991,065	(*) 8,342
1919	223	11,261	9,577,867	28,160,239	58,363,244	30,263,066	5,687
1914	189	7,728	3,791,012	10,762,628	21,903,066	11,140,438	6,719
1909	153	6,206	2,735,860	7,742,636	16,647,223	8,903,587	3,250
1904	143	4,295	1,499,803	3,920,421	8,867,457	4,947,036	1,530
1899	113	3,032	958,471	2,128,445	5,065,869	2,937,424	
PER CENT OF INCREASE OR DECREASE (—)							
1927-1929	4.6	23.3	26.9	19.1	30.0	38.7	29.6
1925-1927	-10.6	-21.2	-18.9	-13.2	-16.0	-18.3	-19.0
1923-1925	-3.6	-14.4	-17.4	-10.4	-12.7	-14.6	-4.9
1921-1923	1.8	18.0	18.0	17.3	20.3	22.8	
1919-1921	-0.9	.2	29.5	5.1	10.7	15.9	
1910-1920	-0.0	-1.6	29.8	14.3	26.9	38.7	38.1
1900-1910	45.8	81.5	250.1	263.7	250.6	239.2	24.2
1899-1900	35.4	104.7	185.4	263.8	228.6	208.1	339.2

¹ For 1929, manufacturers' sales (shipments or deliveries); for earlier years, production. See GENERAL EXPLANATIONS—Value of Products.

² Includes following values of miscellaneous commodities, normally belonging to other industries, made as secondary products by establishments engaged primarily in the manufacture of stationery goods: For 1929, \$3,403,477; 1927, \$4,413,512; 1925, \$3,191,264; no corresponding figures available for earlier years. Does not include following values of stationery goods made as secondary products by establishments classified in other industries: For 1929, \$5,194,114; 1927, \$8,361,858; 1925, \$7,139,446; 1923, \$7,661,241; 1921, \$4,959,372; 1919, \$5,944,798; no corresponding figures available for earlier years.

³ Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

⁴ Not called for on schedule.

CENSUS OF MANUFACTURES: 1929

TABLE 2.—GENERAL STATISTICS, BY STATES: 1929, 1927, AND 1919

[This table presents statistics separately for each State for which figures can be given without disclosing data for individual establishments, and for the remaining States in groups. Certain of the States for which figures are given in combination with those for others, however, reported larger values of products than some of the States shown separately. Data for establishments with products under \$5,000 in value are included for 1919 but not for subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

STATE	Census year	Number of establishments	Salaried officers and employees ¹	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products ²	Value added by manufacture ³
					Total	Prime movers	Motors run by purchased energy			Total	Materials and containers	Fuel and purchased energy		
United States.....	1929	203	2,287	11,078	11,523	2,036	8,887	\$6,229,513	\$12,429,726	\$32,177,887	\$31,060,744	\$517,143	\$74,062,047	\$41,884,160
	1927	194	2,044	8,987	8,891	1,510	7,381	4,453,213	9,791,788	27,016,348	26,612,334	404,014	56,987,490	29,971,142
	1919	223	3,144	11,261	8,342	1,813	6,529	6,682,175	9,577,807	28,160,239	27,812,723	347,516	58,363,244	30,203,005
Individual States:														
California.....	1929	9	28	106	173	-----	173	50,495	136,195	241,862	236,029	5,233	822,071	580,209
	1927	6	50	102	186	-----	186	115,150	129,340	320,848	316,910	3,938	903,022	582,174
Connecticut.....	1929	5	55	369	398	-----	398	174,364	853,727	878,675	854,918	18,757	1,687,748	814,073
	1927	4	38	254	185	-----	185	100,256	287,633	741,762	731,009	10,753	1,358,511	616,749
	1919	8	53	110	98	-----	98	80,051	100,767	188,431	184,684	3,747	477,233	288,802
Illinois.....	1929	31	367	1,636	1,916	600	1,316	1,330,824	2,127,205	4,678,838	4,570,425	108,413	13,831,516	9,152,678
	1927	28	293	735	1,034	100	934	430,481	1,002,029	2,761,727	2,693,598	58,129	7,423,147	4,671,420
	1919	32	402	1,668	1,366	128	1,238	1,025,248	1,549,716	3,230,420	3,176,611	58,809	8,950,598	5,720,178
Indiana.....	1929	7	41	342	313	-----	313	139,214	819,692	1,238,730	1,225,853	12,877	2,213,500	974,770
	1927	7	37	351	484	-----	484	119,413	298,274	1,090,833	1,070,554	20,279	2,138,084	1,047,251
	1919	7	70	227	205	-----	205	100,133	150,412	774,790	769,367	5,423	1,279,204	504,474
Massachusetts.....	1929	24	520	2,331	1,523	330	1,193	1,134,112	2,498,500	5,831,169	5,766,820	64,349	12,143,957	6,312,788
	1927	28	608	2,608	2,305	550	1,755	1,147,480	2,650,292	6,944,710	6,842,653	102,057	14,763,255	7,818,545
	1919	30	913	3,305	1,600	593	907	1,858,662	2,619,452	7,265,017	7,107,757	97,260	15,161,819	7,890,802
New Jersey.....	1929	11	89	452	435	145	290	296,279	689,589	913,398	896,956	16,442	2,448,659	1,535,261
	1927	10	58	227	263	25	238	148,163	258,053	538,567	527,493	11,074	1,207,704	669,137
	1919	9	64	160	154	49	105	99,125	154,296	314,865	306,251	8,614	731,858	406,993
New York.....	1929	55	423	2,388	2,470	741	1,729	1,157,405	2,630,834	6,003,599	5,849,057	154,542	17,256,052	11,252,453
	1927	52	331	1,774	1,294	190	1,104	999,513	2,068,086	4,850,474	4,773,159	77,315	9,941,424	5,090,950
	1919	77	637	2,354	1,259	190	1,069	1,432,186	2,119,265	7,069,567	7,013,969	55,588	12,947,891	5,873,334
Ohio.....	1929	11	195	644	836	-----	836	481,903	848,083	1,650,845	1,625,080	31,765	4,652,601	2,995,756
	1927	10	106	429	466	-----	466	244,542	543,635	884,701	860,849	23,852	3,052,656	2,167,955
	1919	12	235	766	754	250	504	482,797	769,236	2,161,709	2,129,541	32,168	4,645,805	2,484,156
Pennsylvania.....	1929	12	132	478	672	430	242	329,614	489,860	1,440,150	1,419,533	20,617	2,873,024	1,432,874
	1927	15	149	623	942	440	502	304,084	587,840	1,474,486	1,455,176	19,310	3,134,169	1,659,673
	1919	18	133	781	984	519	468	263,746	574,304	2,216,893	2,192,060	24,827	4,176,658	1,669,765
Washington.....	1929	3	9	22	22	-----	22	23,390	29,062	76,165	75,085	1,080	153,078	76,913
	1927	3	6	24	29	-----	29	19,757	26,723	83,695	82,533	1,162	152,169	68,464
Wisconsin.....	1929	4	38	103	115	-----	115	125,067	131,193	463,498	457,005	6,403	1,035,680	572,278
	1927	4	34	100	100	-----	100	100,797	122,969	479,816	474,979	4,837	991,135	511,319
Groups of States:														
Ky., 1 est.; Tenn., 2	1929	3	2	16	12	-----	12	4,800	12,567	43,198	43,127	71	107,623	64,325
Other States (Ga., 3 est.; Iowa, 3; Kans., 1; La., 2; Md., 2; Mich., 3; Minn., 1; Mo., 4; Nebr., 1; R. I., 2; Tex., 2; Va., 4)	1929	28	388	2,191	2,638	390	2,248	976,046	2,157,219	8,716,850	8,640,256	76,594	14,836,632	6,119,782
States not shown separately.....	1927	27	314	1,760	1,603	205	1,398	657,577	1,811,014	6,854,729	6,783,421	71,308	11,922,234	5,067,505
	1919	30	547	1,890	2,022	87	1,935	1,234,228	1,540,419	4,938,557	4,872,477	66,080	9,942,058	5,003,501

¹ Not including proprietors and firm members, as follows: For 1929, 63; 1927, 65; 1919, 130. The total numbers of persons engaged—proprietors and firm members, salaried officers and employees, and wage earners—as reported for the industry, are as follows: For 1929, 13,428; 1927, 11,096; 1919, 14,535.
² For 1929, sales (shipments or deliveries) by manufacturers; for earlier years, production. See GENERAL EXPLANATIONS—Value of Products.
³ Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.
⁴ Delaware, 1 establishment; Georgia, 3; Iowa, 1; Kansas, 1; Kentucky, 1; Louisiana, 1; Maryland, 1; Michigan, 5; Minnesota, 1; Missouri, 4; Nebraska, 1; Tennessee, 2; Texas, 3; Virginia, 2.
⁵ Alabama, 1 establishment; California, 2; Georgia, 2; Iowa, 3; Louisiana, 1; Maryland, 1; Michigan, 5; Minnesota, 2; Missouri, 4; Tennessee, 2; Vermont, 1; Virginia, 1; Washington, 1; Wisconsin, 4.

STATIONERY GOODS

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TABLE 3.—PRIME MOVERS, MOTORS, GENERATORS, AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY—NUMBER AND RATED CAPACITY OF PRIME MOVERS AND ELECTRIC MOTORS, 1929, 1927, 1925, 1919, AND 1914, AND OF GENERATORS, 1929, 1927, AND 1925; QUANTITY OF ELECTRIC ENERGY PURCHASED, 1929

TYPE	1929		1927		1925		1919		1914		PER CENT DISTRIBUTION OF RATED HORSE-POWER CAPACITY	
	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	1929	1919
		Horse-power		Horse-power		Horse-power		Horse-power		Horse-power		
Prime movers and electric motors driven by purchased energy, aggregate.....	4,346	11,523	3,610	8,891	4,098	10,970	2,294	8,342	1,050	5,687	100.0	100.0
Prime movers, total.....	33	2,636	23	1,510	29	2,155	31	1,813	50	2,954	22.9	21.7
Steam, total.....	24	2,290	17	1,255	18	1,557	18	1,349	28	2,386	19.9	16.2
Engines.....	23	2,275	16	1,245	17	1,545	16	1,229	(1)	(1)	19.8	14.7
Turbines.....	1	15	1	10	1	12	2	120	(1)	(1)	.1	1.5
Internal-combustion engines.....	7	196	3	70	5	103	9	179	20	502	1.7	2.1
Water wheels and water turbines.....	2	150	3	185	6	495	4	285	2	66	1.3	3.4
Electric motors driven by purchased energy.....	4,313	8,887	3,587	7,381	4,069	8,815	2,263	6,529	1,000	2,733	77.1	78.3
Electric motors, total.....	5,486	10,847	4,062	8,500	4,683	10,619	2,582	7,504	1,905	4,640	100.0	100.0
Driven by purchased energy.....	4,313	8,887	3,587	7,381	4,069	8,815	2,263	6,529	1,000	2,733	81.9	87.0
Driven by energy generated in establishments reporting.....	1,173	1,960	475	1,119	614	1,804	319	975	905	1,907	18.1	13.0
Electric generators.....	18	Kilowatts 1,238 Kilowatt-hours 9,115,647	11	Kilowatts 661	27	Kilowatts 1,108	(?)	(?)	(?)	(?)		
Electric energy purchased *.....				(?)		(?)		(?)		(?)		

1 Not called for separately on schedule.
 2 Not called for on schedule.
 * This item covers the consumption of purchased electric energy for all purposes—power, heat, light, etc.
 † Data incomplete.

TABLE 4.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1929, 1925, 1919, 1914, AND 1909, AND BY STATES, 1929

[This table presents statistics for only those States for which figures can be given without disclosing data for individual establishments. The sum of the State items in any column is not, therefore, equal to the United States total at the head of the column. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures]

STATE	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Percent minimum is of maximum
		January	February	March	April	May	June	July	August	September	October	November	December	
United States:														
1929.....	11,078	<i>10,531</i>	10,704	10,980	10,882	10,948	10,987	11,016	11,226	11,488	11,431	11,491	11,253	91.6
1925.....	11,399	11,092	11,392	11,634	11,857	11,583	11,414	<i>11,662</i>	11,353	11,344	11,519	11,365	11,375	94.9
1919.....	11,261	10,684	<i>10,626</i>	10,750	10,636	10,861	10,711	11,081	11,240	11,593	12,124	12,369	12,628	84.8
1914.....	7,728	7,601	7,737	7,958	7,879	7,894	7,940	7,720	7,679	7,699	7,625	7,506	7,467	94.3
1909.....	6,206	<i>6,624</i>	6,827	6,130	6,248	6,268	6,230	6,232	6,314	6,429	6,435	6,397	6,388	87.4
California.....	106	103	106	100	101	<i>96</i>	103	111	108	110	112	111	111	85.7
Connecticut.....	360	338	353	373	388	366	351	356	368	377	399	384	360	86.9
Illinois.....	1,636	1,463	<i>1,447</i>	1,449	1,466	1,529	1,578	1,617	1,655	1,700	1,805	1,947	1,974	73.3
Indiana.....	342	294	329	354	332	332	351	357	366	411	361	333	284	69.1
Massachusetts.....	2,331	2,336	2,326	2,382	2,301	2,302	2,267	2,247	2,307	2,421	2,451	2,386	<i>2,241</i>	91.4
New Jersey.....	452	443	452	462	479	469	439	415	422	434	468	477	465	86.2
New York.....	2,388	2,327	2,419	2,475	2,443	2,453	2,419	2,334	2,320	2,408	2,324	2,374	2,360	93.7
Ohio.....	644	650	620	632	623	626	612	644	659	667	655	653	666	89.1
Pennsylvania.....	478	<i>416</i>	464	497	504	491	482	454	505	495	484	458	452	82.4
Washington.....	22	16	22	24	25	28	31	31	24	20	18	15	15	48.4
Wisconsin.....	103	96	95	98	98	100	100	103	109	112	110	110	107	84.8

STEAM AND OTHER PACKING, PIPE AND BOILER COVERING, AND GASKETS, NOT ELSEWHERE CLASSIFIED

Because of the close relation and the amount of overlapping between this industry and the "Asbestos products other than steam packing or pipe and boiler covering" industry, in Group 10, the reports for the two industries have been combined and are presented in the section for Group 10. (See pp. 827 to 833.)

SURGICAL AND ORTHOPEDIC APPLIANCES, INCLUDING ARTIFICIAL LIMBS

Description of the industry.—This industry embraces establishments engaged primarily in the manufacture of surgical dressings, bandages and gauze, and of braces, trusses, abdominal supports, suspensories, elastic hosiery, anklets, kneecaps, pneumatic splints, extension shoes, arch supports, crutches, and artificial limbs. The manufacture of surgical and dental instru-

ments is not included, these commodities being treated as products of the "Instruments, professional and scientific" industry. At previous censuses the manufacture of artificial limbs was classified as a separate industry. The figures for 1927 and earlier years, as given in Tables 1, 2, 4, and 5, have been adjusted so as to make them comparable with those for 1929.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1929

[Data for establishments with products under \$5,000 in value included for 1919 and prior years but not for 1921 and subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers for products, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²	Horsepower
1920.....	363	7,910	\$8,921,668	\$36,004,844	\$71,607,119	\$35,602,275	13,467
1927.....	335	7,310	8,371,278	30,763,898	60,623,497	29,859,899	9,652
1925.....	303	6,450	6,837,328	26,813,846	58,285,656	31,471,810	12,527
1923.....	286	5,868	6,308,521	24,275,660	47,603,399	23,327,739	9,982
1921.....	295	4,810	5,280,033	15,077,020	34,946,696	19,869,676	(9)
1919.....	445	7,061	6,875,668	22,988,065	46,805,265	23,817,198	13,239
1914.....	391	4,770	2,580,535	7,413,294	16,418,138	9,004,844	6,943
1909.....	324	4,241	2,128,927	5,371,656	12,399,314	7,027,658	5,739
1904.....	284	3,153	1,376,476	2,865,916	7,269,024	4,493,106	3,143
1899.....	306	1,788	767,421	1,417,642	4,682,212	3,264,570	1,217
PER CENT OF INCREASE OR DECREASE (—)							
1927-1929.....	8.4	8.2	6.6	17.0	18.1	19.2	38.8
1925-1927.....	10.6	13.3	22.4	14.7	4.0	-5.1	-22.9
1923-1925.....	5.9	9.9	8.4	10.5	22.4	34.9	25.5
1921-1923.....	-3.1	22.0	19.5	61.0	36.2	17.4	-----
1919-1921.....	-33.7	-31.9	-23.2	-34.4	-25.3	-16.6	-----
1919-1929.....	-18.4	12.0	29.7	56.6	53.0	49.5	1.3
1909-1919.....	37.3	65.5	223.1	328.0	277.5	238.9	130.7
1899-1909.....	5.9	137.2	177.4	278.9	164.8	115.3	371.6

¹ For 1929, manufacturer's sales (shipments or deliveries); for earlier years, production. See GENERAL EXPLANATIONS—Value of Products.
² Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.
³ Not called for on schedule.

CENSUS OF MANUFACTURES: 1929

TABLE 2.—GENERAL STATISTICS, BY STATES: 1929, 1927, AND 1919

[This table presents statistics separately for each State for which figures can be given without disclosing data for individual establishments, and for the remaining States in groups. Data for establishments with products under \$5,000 in value are included for 1919 but not for subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

STATE	Census year	Number of establishments	Salaried officers and employees ¹	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products ²	Value added by manufacture ³
					Total	Prime movers	Motors run by purchased energy			Total	Materials and containers	Fuel and purchased energy		
United States.....	1929	363	2,248	7,910	13,407	3,450	9,957	\$5,722,007	\$8,921,668	\$36,004,844	\$35,480,006	\$524,748	\$71,607,110	\$35,602,275
	1927	335	2,017	7,310	9,662	2,847	6,815	4,540,779	8,371,278	30,703,598	30,302,186	461,412	60,623,497	29,859,899
	1919	445	2,639	7,061	13,230	8,535	4,704	4,637,980	6,878,908	22,988,068	22,582,408	405,660	46,805,266	23,817,198
Individual States:														
California.....	1929	29	45	150	88	-----	88	95,562	212,375	271,346	269,324	5,022	842,393	571,047
	1927	29	42	108	90	12	78	77,134	167,610	191,427	187,671	3,756	613,419	421,992
	1919	28	14	63	68	12	56	16,771	82,664	120,942	119,039	1,903	325,801	204,859
Colorado.....	1929	6	8	14	12	-----	12	14,593	19,045	15,608	15,405	263	71,457	55,780
	1927	6	4	17	12	-----	12	7,500	22,542	20,230	19,829	401	81,255	61,025
Connecticut.....	1929	15	72	432	1,366	990	436	138,581	341,426	2,084,840	2,037,586	47,254	3,298,443	1,213,603
Dist. of Columbia..	1929	4	12	25	42	-----	42	30,848	34,348	32,605	31,547	1,058	188,012	155,407
Illinois.....	1929	32	349	1,199	1,826	425	1,401	1,083,338	1,528,633	3,930,162	3,870,196	59,966	10,120,295	6,196,143
	1927	33	287	1,211	1,689	300	1,389	774,136	1,452,406	3,611,780	3,439,180	72,600	9,579,386	6,067,606
Iowa.....	1929	3	3	7	7	-----	7	5,604	7,904	4,351	4,092	259	31,575	27,224
Kansas.....	1929	3	11	16	35	4	31	18,419	17,222	15,656	14,553	1,103	83,079	67,423
	1927	3	13	13	33	4	29	22,386	13,749	19,607	18,619	988	90,476	70,869
	1919	3	20	23	21	15	6	20,174	14,803	54,413	53,231	1,182	143,415	89,002
Louisiana.....	1929	3	9	28	11	-----	11	25,200	29,807	9,256	8,896	360	53,219	43,963
Maryland.....	1929	4	1	13	11	-----	11	1,600	17,483	11,259	10,965	294	46,035	34,776
Michigan.....	1929	10	59	127	52	-----	52	127,178	104,382	276,077	270,957	5,120	903,335	627,258
	1927	8	29	122	49	-----	49	91,209	139,673	260,120	257,670	2,450	960,575	690,465
	1919	18	19	94	21	-----	21	26,654	58,032	117,865	116,443	1,422	564,442	436,577
Minnesota.....	1929	12	41	64	108	-----	108	68,558	85,047	73,400	68,936	4,464	340,345	266,945
	1927	11	27	65	85	-----	85	42,600	91,103	48,667	45,095	3,562	308,189	259,532
Missouri.....	1929	18	144	237	575	80	495	247,831	237,138	716,862	697,166	19,696	1,868,940	1,152,084
	1927	19	105	229	593	80	513	191,264	250,065	708,685	682,242	26,443	1,840,200	1,131,524
	1919	27	121	200	189	17	172	259,882	220,342	484,137	476,890	7,247	1,602,785	1,118,648
Nebraska.....	1929	3	2	12	7	-----	7	3,700	12,047	12,803	12,639	164	48,273	35,470
New Hampshire.....	1929	3	5	20	182	150	32	7,990	28,114	16,232	15,172	1,060	60,238	44,006
	1927	4	4	23	248	213	35	8,350	24,223	24,906	24,787	119	81,974	57,068
New York.....	1929	77	230	1,045	2,565	-----	2,565	716,453	1,220,842	5,092,182	5,043,242	48,940	9,520,516	4,434,334
	1927	69	237	1,116	802	6	706	559,034	1,250,029	4,400,289	4,414,171	40,118	8,411,249	3,950,960
	1919	98	871	1,751	1,502	1,085	417	1,314,117	1,849,139	5,344,302	5,256,077	87,625	10,568,061	5,223,759
Ohio.....	1929	25	106	422	135	18	117	241,185	311,042	679,337	672,116	7,221	2,481,279	1,801,942
	1927	21	110	360	59	-----	59	257,261	349,787	817,862	814,005	3,847	2,254,095	1,436,843
	1919	34	110	291	142	29	113	101,664	227,944	504,527	500,022	4,506	1,138,890	634,363
Oregon.....	1929	4	2	15	11	-----	11	4,300	17,874	21,072	21,009	663	63,192	41,520
Pennsylvania.....	1929	35	149	673	276	83	103	423,302	728,803	817,200	799,760	17,440	2,728,779	1,911,579
	1927	33	150	601	339	158	181	273,427	673,671	725,878	706,704	19,114	2,230,356	1,504,478
	1919	46	130	564	334	191	143	277,793	548,999	706,375	752,498	13,877	1,949,109	1,182,734
Texas.....	1929	4	4	16	18	-----	18	8,580	18,285	14,409	13,774	635	81,400	66,991
	1927	5	6	14	47	-----	47	7,325	19,839	19,100	18,060	1,040	78,113	59,013
Washington.....	1929	4	-----	14	12	-----	12	-----	17,345	15,314	15,052	262	60,322	45,008
	1927	4	4	15	7	-----	7	6,188	20,054	19,008	18,339	669	60,343	47,335
Groups of States:														
Ala., 1 est.; Fla., 1;	1929	5	16	39	35	-----	35	31,927	69,610	38,171	36,730	1,441	186,224	148,053
Ga., 2; Miss., 1;	1929	3	-----	4	12	-----	12	-----	6,630	2,984	2,761	223	26,169	23,175
Ark., 1 est.; Okla., 2;	1929	3	5	22	108	-----	108	4,056	18,178	44,871	41,337	3,534	99,891	55,020
N. C., 1 est.; S. C.,	1929	3	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
1; Tenn., 1;	1929	3	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Other States (Ind.,	1929	58	975	3,307	5,913	1,760	4,153	2,423,893	3,836,588	21,808,197	21,609,881	298,316	38,391,712	16,583,515
3 est.; Ky., 2; Me., 1;														
Mass., 24; Nev., 1;														
N. J., 15; R. I., 2;														
Utah, 2; Va., 1;														
W. Va., 1; Wis., 6).														
States not shown separately.....	1927	90	999	3,416	5,609	2,074	3,535	2,222,965	3,889,588	19,936,059	19,655,754	280,395	34,037,258	14,101,199
	1919	191	1,354	4,075	10,967	7,186	3,781	2,620,935	3,870,715	15,595,607	15,307,608	287,899	30,522,763	14,927,256

¹ Not including proprietors and firm members, as follows: For 1929, 214; 1927, 216; 1919, 373. The total numbers of persons engaged—proprietors and firm members, salaried officers and employees, and wage earners—as reported for the industry, are as follows: For 1929, 10,372; 1927, 9,543; 1919, 10,073.
² For 1929, manufacturers' sales (shipments or deliveries); for earlier years, production. See GENERAL EXPLANATIONS—Value of Products.
³ Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.
⁴ Data for purchased power other than electric (power transmitted into the plant by belt or shaft) are included in the State items for 1919 but not in the United States totals.
 * Alabama, 1 establishment; Connecticut, 7; District of Columbia, 3; Georgia, 3; Indiana, 4; Iowa, 3; Kentucky, 3; Louisiana, 3; Maine, 1; Massachusetts, 23; Michigan, 3; Nebraska, 3; Nevada, 1; New Jersey, 13; North Carolina, 1; Oklahoma, 1; Oregon, 4; Rhode Island, 2; South Carolina, 1; Tennessee, 2; Utah, 2; Wisconsin, 6.
 † Alabama, 2 establishments; Arkansas, 1; Colorado, 6; Connecticut, 11; Delaware, 1; District of Columbia, 4; Georgia, 3; Illinois, 36; Indiana, 8; Iowa, 4; Kentucky, 5; Louisiana, 2; Maine, 1; Maryland, 5; Massachusetts, 25; Minnesota, 14; Montana, 1; Nebraska, 3; New Hampshire, 5; New Jersey, 13; Oklahoma, 2; Oregon, 3; Rhode Island, 2; South Carolina, 1; Tennessee, 5; Texas, 5; Utah, 3; Vermont, 1; Virginia, 2; Washington, 6; Wisconsin, 11.

SURGICAL AND ORTHOPEDIC APPLIANCES

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TABLE 3.—PRODUCTS, BY KIND AND VALUE, FOR THE UNITED STATES: 1929
 [The figures refer to sales (shipments or deliveries) by manufacturers. See GENERAL EXPLANATIONS—Value of Products]

KIND	Value	KIND	Value
1. Surgical-appliances industry, all products, total value.....	\$71,607,119	Surgical and orthopedic appliances and related products, all industries, aggregate value (sum of 2 and 4).....	\$68,372,751
2. Surgical appliances and related products.....	65,014,815		
3. Other products (not normally belonging to the industry), value, and receipts for contract work, custom work, and repairing.....	6,592,304		
4. Surgical appliances and related products made as secondary products in other industries.....	3,357,936		
		Artificial limbs.....	2,442,972
		Ligatures.....	2,020,778
		Sanitary napkins.....	10,340,790
		Surgical dressings and bandages.....	31,201,146
		Other surgical and orthopedic appliances ¹	21,467,065

¹ Braces of all kinds, trusses, elastic hosiery, abdominal supports, kneecaps and anklets, extension shoes, arch supports, eardrums, crutches, splints, and similar devices.

TABLE 4.—PRIME MOVERS, MOTORS, GENERATORS, AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY—NUMBER AND RATED CAPACITY OF PRIME MOVERS AND ELECTRIC MOTORS, 1929, 1927, 1925, 1919, AND 1914, AND OF GENERATORS, 1929, 1927, AND 1925; QUANTITY OF ELECTRIC ENERGY PURCHASED, 1929

TYPE	1929		1927		1925		1919		1914		PER CENT DISTRIBUTION OF RATED HORSE-POWER CAPACITY	
	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	1929	1919
		Horse-power		Horse-power		Horse-power		Horse-power		Horse-power		
Prime movers and electric motors driven by purchased energy, aggregate.....	2,016	13,407	2,374	9,662	1,995	12,527	975	13,239	473	6,948	100.0	100.0
Prime movers, total.....	31	3,450	30	2,847	36	5,170	52	8,535	49	5,901	25.7	64.5
Steam, total.....	19	2,586	17	2,235	27	4,651	28	7,735	20	5,200	19.3	58.4
Engines.....	16	2,375	15	2,110	23	3,091	24	5,110	(1)	(1)	17.7	38.6
Turbines.....	3	211	2	125	4	1,560	4	2,625	(1)	(1)	1.6	19.8
Internal-combustion engines.....	4	34	6	134	5	44	16	222	22	196	0.2	1.7
Water wheels and water turbines.....	8	530	7	578	4	475	8	578	7	505	6.2	4.4
Electric motors driven by purchased energy.....	2,585	9,957	2,344	6,815	1,959	7,357	923	4,704	424	1,047	74.3	35.5
Electric motors, total.....	2,712	10,910	2,445	7,419	2,023	7,882	1,534	9,617	729	4,748	100.0	100.0
Driven by purchased energy.....	2,585	9,957	2,344	6,815	1,959	7,357	923	4,704	424	1,047	91.3	48.9
Driven by energy generated in establishments reporting.....	127	953	101	604	64	525	611	4,913	305	3,701	8.7	51.1
Electric generators.....	8	Kilowatts 635 Kilowatt-hours	14	Kilowatts 802	16	Kilowatts 2,722	(2)	(2)	(2)	(2)	-----	-----
Electric energy purchased ²	15,468,022	-----	(1)	-----	(1)	-----	(1)	-----	(2)	-----	-----	-----

¹ Not called for separately on schedule.
² Not called for on schedule.

³ This item covers the consumption of purchased electric energy for all purposes—power, heat, light, etc.
⁴ Data incomplete.

TABLE 5.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1929, 1925, 1919, 1914, AND 1909, AND BY STATES, 1929

[This table presents statistics for only those States for which figures can be given without disclosing data for individual establishments. The sum of the State items in any column is not, therefore, equal to the United States total at the head of the column. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures.]

STATE	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum	
		January	February	March	April	May	June	July	August	September	October	November	December		
United States:															
1929.....	7,910	<i>7,462</i>	7,043	7,755	7,795	7,856	7,806	7,859	8,159	8,251	8,404	8,045	7,890	88.8	
1925.....	6,450	6,270	<i>6,368</i>	6,340	6,401	6,378	6,366	6,451	6,468	6,568	6,694	6,670	6,641	93.8	
1919.....	7,061	8,247	7,498	6,972	6,782	<i>6,659</i>	6,802	6,677	6,901	7,001	6,998	7,086	7,109	80.7	
1914.....	4,770	4,015	4,753	4,679	4,733	4,741	4,632	4,611	<i>4,691</i>	4,776	4,982	5,113	4,924	89.8	
1909.....	4,241	<i>4,016</i>	4,061	4,108	4,125	4,167	4,211	4,303	4,305	4,332	4,374	4,433	4,453	90.2	
California.....	150	156	165	<i>164</i>	158	159	160	162	162	161	161	160	163	94.5	
Colorado.....	14	15	16	15	15	15	15	15	15	15	15	15	15	86.7	
Connecticut.....	432	430	418	430	429	439	<i>418</i>	416	439	450	459	441	420	90.0	
District of Columbia.....	25	25	25	25	25	25	25	25	25	25	25	25	25	-----	
Illinois.....	1,199	1,117	1,111	1,111	1,133	1,166	<i>1,101</i>	1,123	1,249	1,315	1,397	1,368	1,268	78.8	
Iowa.....	7	7	7	7	7	7	7	7	7	7	7	7	7	-----	
Kansas.....	16	<i>16</i>	16	16	16	16	16	16	16	16	16	17	17	94.1	
Louisiana.....	28	28	28	28	28	28	28	28	28	28	28	28	28	-----	
Maryland.....	13	13	13	13	13	13	13	13	13	13	13	13	13	-----	
Michigan.....	127	132	134	127	125	126	126	123	124	126	129	131	119	88.8	
Minnesota.....	64	64	64	66	66	65	65	65	65	65	63	62	63	93.9	
Missouri.....	237	<i>209</i>	212	218	226	271	244	248	243	243	246	235	227	77.1	
Nebraska.....	12	12	12	12	12	12	12	12	12	12	12	12	12	-----	
New Hampshire.....	20	20	20	20	20	20	20	20	20	20	20	20	20	-----	
New York.....	1,045	<i>995</i>	1,030	1,074	1,068	1,078	1,058	1,029	1,025	1,044	1,046	1,043	1,024	91.7	
Ohio.....	422	411	418	428	432	439	434	448	428	412	414	404	398	87.7	
Oregon.....	15	16	14	14	14	14	14	14	14	16	16	15	14	87.5	
Pennsylvania.....	673	669	660	680	682	686	682	680	669	672	659	657	648	93.9	
Texas.....	16	16	16	16	16	16	16	16	16	16	16	16	16	-----	
Washington.....	14	14	14	15	15	15	15	15	15	14	14	14	14	93.3	

THEATRICAL SCENERY AND STAGE EQUIPMENT

Description of the industry.—The principal products of this industry are scenery and curtains for theaters, halls, and schools; stage hardware and equipment, other than electrical; and floats for street pageants. (Establishments engaged in the manufacture of electrical stage equipment are classified in the "Electrical machinery, apparatus, and supplies" industry.)

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1914 TO 1929

[Data for establishments with products under \$5,000 in value included for 1919 and 1914 but not for 1921 and subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²	Horsepower
1929	55	547	\$992,133	\$2,098,498	\$5,507,827	\$3,409,329	618
1927	39	561	1,379,971	2,330,377	5,745,472	3,415,095	998
1925	33	391	853,652	1,519,907	3,574,210	2,058,303	413
1923	17	210	429,772	634,622	1,625,668	991,046	162
1921	18	169	361,302	491,682	1,214,480	722,798	(9)
1919	17	149	237,603	504,655	1,067,033	562,378	104
1914 ⁴	7	88	89,359	124,577	326,965	202,388	65
PER CENT OF INCREASE OR DECREASE (—)							
1927-1929	(9)	-2.5	-28.1	-10.0	-4.1	-0.2	-38.1
1925-1927	(9)	43.5	61.7	53.3	60.6	65.9	141.6
1923-1925	(9)	86.2	98.6	139.5	120.1	107.7	154.9
1921-1923	(9)	24.3	19.0	29.1	33.9	37.1	-----
1919-1921	(9)	13.4	62.1	-2.6	13.8	28.5	-----
1919-1929	(9)	267.1	317.6	315.8	416.2	506.2	494.2

¹ For 1929, manufacturers' sales (shipments or deliveries); for earlier years, production. See GENERAL EXPLANATIONS—Value of Products.
² Includes values of miscellaneous products, normally belonging to other industries, made as secondary products by establishments engaged primarily in the manufacture of theatrical scenery and stage equipment, as follows: 1929, \$35,000; 1927, \$259,715; corresponding amounts for earlier years not available. Does not include following values of theatrical scenery and stage equipment reported by establishments engaged primarily in other lines of manufacture: 1929, \$7,840; 1925, \$143,790; 1923, \$12,850; corresponding amounts for earlier years not available.
³ Value of products less cost of materials, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.
⁴ Not called for on schedule.
⁵ No comparable figures for years prior to 1914.
⁶ Per cent not computed where base is less than 100.

TABLE 2.—GENERAL STATISTICS, BY STATES: 1929, 1927, AND 1919

[This table presents statistics for each State for which figures can be given without disclosing data for individual establishments. Certain of the "Other States," however, reported larger values of products than some of the States shown separately. Data for establishments with products under \$5,000 in value are included for 1919 but not for subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

STATE	Census year	Number of establishments	Salaried officers and employes ¹	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products ²	Value added by manufacture ³
					Total	Prime movers	Motors run by purchased energy			Total	Materials	Fuel and purchased energy		
United States	1929	55	180	547	618	-----	618	\$727,710	\$992,133	\$2,098,498	\$2,069,709	\$28,789	\$5,507,827	\$3,409,329
	1927	39	165	561	998	3	995	533,817	1,379,971	2,330,377	2,308,250	22,127	5,745,472	3,415,095
	1919	17	75	149	104	-----	104	138,021	237,603	504,655	500,584	4,071	1,067,033	562,378
California	1929	7	22	67	65	-----	65	89,342	131,132	266,851	263,841	3,010	670,525	403,674
	1927	6	18	77	31	-----	31	61,285	188,768	214,271	213,599	672	771,090	556,819
	1919	3	12	25	27	-----	27	20,979	44,919	65,425	65,066	369	175,902	110,477
Illinois	1929	5	15	43	31	-----	31	44,119	88,746	252,895	249,734	3,161	659,286	406,391
	1927	5	17	54	37	-----	37	30,686	102,777	130,207	127,901	2,306	400,986	270,779
Missouri	1929	3	19	31	22	-----	22	61,387	77,116	164,040	161,638	2,402	414,650	250,610
New York	1929	20	64	201	318	-----	318	320,028	404,635	812,707	801,127	11,580	2,297,033	1,484,326
	1927	10	75	265	749	-----	749	275,839	670,194	1,098,608	1,087,802	10,806	2,650,403	1,557,795
	1919	6	42	72	61	-----	61	68,117	96,714	323,673	321,427	2,246	572,484	248,811
Ohio	1929	4	8	33	71	-----	71	21,700	52,394	73,419	72,044	1,375	237,168	163,739
	1927	4	5	17	61	-----	61	6,800	26,895	75,887	74,922	895	159,934	84,047
Other States	1929	16	52	172	111	-----	111	191,134	237,810	528,586	521,325	7,261	1,229,175	700,589
	1927	14	50	148	120	3	117	159,207	391,337	811,404	803,956	7,448	1,767,059	945,655
	1919	8	21	52	16	-----	16	48,925	95,970	115,557	114,091	1,466	318,647	203,090

¹ Not including proprietors and firm members, as follows: For 1929, 30; 1927, 26; 1919, 6. The total numbers of persons engaged—proprietors and firm members, salaried officers and employees, and wage earners—as reported for the industry, are as follows: For 1929, 757; 1927, 752; 1919, 230.
² The figures for 1929 refer to sales (shipments or deliveries) by manufacturers; those for earlier years represent production. See GENERAL EXPLANATIONS—Value of Products.
³ Value of products less cost of materials, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.
⁴ See footnote 2, Table 1.
⁵ Colorado, 1 establishment; Connecticut, 1; Georgia, 1; Indiana, 1; Massachusetts, 1; Minnesota, 1; Nebraska, 1; Oklahoma, 3; Oregon, 3; Pennsylvania, 1; Texas, 1; Wisconsin, 1.
⁶ Iowa, 1 establishment; Massachusetts, 1; Minnesota, 2; Missouri, 3; New Jersey, 1; Oklahoma, 3; Oregon, 1; Pennsylvania, 1; Texas, 1.
⁷ Connecticut, 1 establishment; Illinois, 2; Massachusetts, 1; Minnesota, 2; Missouri, 2.

THEATRICAL SCENERY AND STAGE EQUIPMENT

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TABLE 3.—POWER EQUIPMENT—NUMBER AND RATED CAPACITY OF ELECTRIC MOTORS, 1929, 1927, 1925, 1919, AND 1914, AND QUANTITY OF ELECTRIC ENERGY PURCHASED, 1929

	Number	Horsepower (rated capacity)		Number	Horsepower (rated capacity)
Electric motors driven by purchased energy:			Electric motors driven by purchased energy—Continued.		
1929.....	289	618	1914.....	15	65
1927 ¹	200	995			<i>Kilowatt-hours</i>
1925.....	140	413	Electric energy purchased, 1929.....		329,341
1919.....	42	104			

¹ One internal-combustion engine having a rated capacity of 3 horsepower was also reported.

TABLE 4.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1929, 1925, 1919, AND 1914, AND BY STATES, 1929

[This table presents statistics for only those States for which figures can be given without disclosing data for individual establishments. The sum of the State items in any column is not, therefore, equal to the United States total at the head of the column. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures]

STATE	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum
		January	February	March	April	May	June	July	August	September	October	November	December	
United States:														
1929.....	547	537	568	545	517	562	518	433	515	552	588	586	583	83.0
1925.....	391	392	394	366	384	381	356	345	391	416	415	435	419	79.3
1919.....	149	108	124	136	147	146	161	147	173	155	162	172	157	62.4
1914 ¹	88	80	81	78	87	90	93	101	97	100	89	88	72	71.3
California.....	67	70	68	68	69	73	68	63	66	68	65	62	65	84.9
Illinois.....	43	37	47	43	46	45	44	39	42	42	43	48	46	77.1
Missouri.....	51	29	34	35	32	33	27	28	25	31	28	33	33	71.4
New York.....	201	192	209	201	177	197	205	181	186	202	218	220	221	80.1
Ohio.....	33	34	34	34	34	34	33	33	30	33	33	33	32	88.2

¹ No comparable figures for years prior to 1914.

TOBACCO MANUFACTURES

Description of the industries.—The tobacco industries, "Cigars and cigarettes" and "Tobacco: Chewing and smoking, and snuff," embrace all establishments engaged primarily in the manufacture of the commodities from which the industries derive their titles.

Number of establishments.—The numbers of establishments shown in the census report fall below the corresponding numbers given in the report of the Commissioner of Internal Revenue. The differences are due to the following causes: (1) On the records of the Bureau of Internal Revenue the same establishment may appear two or more times—for example, as a manufacturer of cigars, as a manufacturer of chewing tobacco, and as a manufacturer of cigarettes—while for census purposes such an establishment might make only one report and would be classified according to its product of chief value. (2) A separate report is required by the Bureau of Internal Revenue for each plant or factory, whereas in compiling the census returns two or more factories operated under the same ownership in the same city, town, or village are treated as a single establishment. (3) Every dealer in

scrap tobacco is required to register with the Bureau of Internal Revenue, whereas the manufactures-census statistics do not include data for dealers. (4) All growers of perique tobacco are required by the Bureau of Internal Revenue to register as manufacturers of tobacco, but are not covered by the census of manufactures. (5) A considerable number of manufacturers registered for taxation purposes reported products valued at less than \$5,000, and therefore were not covered by the census of manufactures. (See General Explanations—Establishments Covered—Size.)

Value of products and cost of materials.—All branches of tobacco manufacture are subject to internal-revenue taxes. Tobacco manufacturers were directed, in preparing returns for the census, to report the total selling value of all products manufactured during the year, including the total internal-revenue taxes paid and due on these products. In reporting the cost of materials, however, they were directed to omit the cost of revenue stamps. The comparableness of the value-of-products figures for different census years has been affected by changes in rates of taxation.

TABLE 1.—SUMMARY FOR THE TOBACCO INDUSTRIES IN COMBINATION AND SEPARATELY, FOR THE UNITED STATES: 1899 TO 1929

[Data for establishments with products under \$5,000 in value included for 1919 and prior years but not for 1921 and subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers for products, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²	Horsepower
THE TOBACCO INDUSTRIES							
1929	1,788	116,110	\$94,578,740	\$429,272,352	\$1,246,241,830	\$816,069,487	64,084
1927	2,156	129,299	105,250,631	420,660,513	1,163,768,879	743,101,866	52,385
1925	2,623	132,132	111,558,170	425,780,268	1,001,000,981	605,231,715	42,076
1923	3,672	146,337	120,462,233	515,864,080	1,048,192,405	528,327,425	43,515
1921	4,372	149,985	120,903,492	608,688,363	1,048,489,597	439,807,234	(³) 43,390
1919	10,201	157,097	123,988,084	483,567,754	1,012,033,213	529,365,450	34,766
1914	13,951	178,872	77,850,100	207,133,584	490,165,222	283,031,638	28,343
1909	15,822	166,810	69,354,594	177,185,621	416,695,104	239,500,483	24,204
1904	16,827	159,406	62,639,003	126,085,608	331,111,181	205,026,573	21,852
1899	14,959	132,526	47,975,331	92,860,542	203,713,173	170,846,631	
Per cent of increase or decrease (—):							
1927-1929	-17.1	-10.2	-10.1	2.0	7.1	9.9	24.1
1925-1927	-17.8	-2.1	-5.7	-1.2	6.7	11.7	24.5
1923-1925	-28.6	-9.7	-7.4	-17.5	4.5	25.9	-3.3
1921-1923	-16.0	-2.4	-0.4	-15.3	-0.4	20.1	
1919-1921	-57.5	-4.5	-2.5	25.9	3.5	-18.9	
1919-1929	-82.6	-26.1	-23.7	-11.2	28.0	54.3	49.8
1909-1919	-35.0	-5.8	78.8	172.9	143.1	121.0	53.1
1899-1909	5.8	25.9	44.6	90.8	58.0	40.2	29.7
CIGARS AND CIGARETTES							
1929	1,636	105,308	\$85,623,298	\$256,778,023	\$1,066,908,888	\$710,130,805	49,517
1927	1,997	116,174	94,580,211	335,356,075	965,523,702	630,167,027	36,819
1925	2,445	117,108	99,373,421	331,350,626	874,814,564	543,463,938	24,534
1923	3,466	130,036	107,723,504	369,491,203	821,226,819	451,735,618	24,894
1921	4,140	133,357	108,161,040	452,211,828	806,748,865	354,537,037	(³) 13,483
1919	9,926	138,773	111,313,348	353,297,366	773,662,495	420,365,120	24,497
1914	13,515	152,892	68,306,398	130,529,525	314,884,237	184,354,772	9,205
1909	15,362	139,578	60,431,949	102,719,795	260,088,233	157,368,438	5,889
1904	16,394	135,410	55,863,078	81,131,561	214,343,551	133,211,990	4,240
1899	14,522	103,365	40,865,510	57,828,265	169,958,811	102,130,556	
Per cent of increase or decrease (—):							
1927-1929	-18.1	-9.4	-9.5	6.4	10.5	12.7	38.2
1925-1927	-18.3	-9.8	-4.8	1.2	10.4	16.0	40.0
1923-1925	-29.5	-9.9	-7.8	-10.3	6.5	20.3	-1.4
1921-1923	-16.4	-2.5	-0.4	-18.3	1.8	27.4	
1919-1921	-58.2	-3.9	-2.8	28.0	4.3	-15.7	
1919-1929	-83.5	-24.1	-23.1	1.0	37.9	68.9	102.1
1909-1919	-35.4	-0.6	84.2	243.9	197.5	167.1	166.1
1899-1909	5.8	35.0	47.9	77.6	62.0	54.1	117.1

See footnotes at end of table.

TOBACCO MANUFACTURES

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TABLE 1.—SUMMARY FOR THE TOBACCO INDUSTRIES IN COMBINATION AND SEPARATELY, FOR THE UNITED STATES: 1899 TO 1929—Continued

[See note at head of this table]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers for products, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²	Horsepower
TOBACCO: CHEWING AND SMOKING, AND SNUFF							
1929.....	162	10,811	\$8,955,451	\$72,494,320	\$179,332,951	\$106,838,622	15,467
1927.....	159	10,125	10,661,420	85,310,438	198,244,677	112,934,239	16,566
1925.....	178	15,024	12,184,749	94,418,640	216,186,417	121,767,777	17,541
1923.....	206	16,301	12,788,729	146,373,777	222,965,586	76,591,809	18,621
1921.....	226	16,628	12,742,452	156,476,535	241,740,732	85,264,197	(3)
1919.....	365	18,324	12,674,736	130,270,388	239,270,718	109,600,330	18,893
1914.....	436	25,950	9,549,702	70,604,059	175,280,925	98,676,866	21,273
1909.....	460	27,232	8,922,645	74,465,826	156,606,871	82,141,045	19,138
1904.....	433	23,990	6,775,325	44,954,047	116,767,630	71,813,583	18,315
1899.....	437	29,161	7,109,821	35,038,287	103,754,362	68,716,075	17,612
Per cent of increase or decrease (-):							
1927-1929.....	-4.4	-17.6	-16.0	-15.0	-9.5	-5.4	-6.6
1925-1927.....	-10.7	-12.6	-12.5	-9.0	-8.3	-7.3	-5.6
1923-1925.....	-13.6	-7.8	-4.3	-35.5	-3.0	59.0	-5.8
1921-1923.....	-8.9	-2.0	(4)	-6.5	-7.8	-10.2	-----
1919-1921.....	-38.1	-9.3	0.5	20.1	1.0	-21.8	-----
1919-1929.....	-58.4	-41.0	-29.3	-44.4	-25.1	-2.0	-18.1
1909-1919.....	-20.7	-32.7	42.1	74.9	52.8	32.7	-1.3
1899-1909.....	5.3	-6.6	25.5	112.5	50.9	19.5	8.7

¹ For 1929, manufacturers' sales (shipments or deliveries); for earlier years, production. See GENERAL EXPLANATIONS—Value of Products.
² Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.
³ Not called for on schedule.
⁴ Less than one-tenth of 1 per cent.

TABLE 2.—GENERAL STATISTICS FOR THE TOBACCO MANUFACTURES INDUSTRIES, BY STATES: 1929, 1927, AND 1919

[This table presents statistics for each State for which figures can be given without disclosing data for individual establishments. Some of the States not shown separately, however, reported larger values of products than certain of the States for which separate figures are given. Data for establishments with products under \$5,000 in value are included for 1919 but not for subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

STATE	Cen- sus year	Num- ber of estab- lish- ments	Salaried officers and em- ployees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products ¹	Value added by manufac- ture ¹
					Total	Prime movers	Motors run by pur- chased energy			Total	Materials and con- tainers	Fuel and purchased energy		
CIGARS AND CIGARETTES														
United States.....														
	1929	1,636	³ 9,131	105,308	49,517	25,192	24,325	Dollars 19,765,539	Dollars 85,623,298	Dollars 356,778,023	Dollars 356,142,046	Dollars 1,635,977	Dollars 1,066,908,888	Dollars 710,130,865
	1927	1,997	³ 10,289	116,174	35,819	15,689	20,180	19,800,453	94,589,211	335,356,075	333,756,355	1,599,720	965,623,702	630,167,627
	1919	9,026	³ 11,860	138,773	² 24,497	¹ 13,609	¹ 10,888	22,392,437	111,313,348	353,297,366	351,827,204	1,470,162	773,662,495	420,365,129
Alabama.....	1929	5	2	25	-----	-----	-----	5,316	13,904	23,666	23,638	28	73,350	49,684
	1927	6	1	38	-----	-----	-----	4,200	28,147	31,289	31,236	53	93,872	62,583
	1919	25	4	61	-----	-----	-----	2,408	40,241	48,668	48,463	205	142,793	94,125
Colorado.....	1929	5	13	117	3	-----	3	29,688	88,598	110,932	109,960	972	295,433	184,501
	1927	6	12	84	1	-----	1	11,030	81,670	96,436	96,207	229	292,739	196,363
	1919	58	30	389	3	-----	3	71,714	422,228	681,318	680,477	841	1,464,680	783,362
Connecticut.....	1929	37	38	603	20	-----	20	68,159	748,311	774,426	767,188	7,238	2,114,840	1,340,414
	1927	37	67	647	28	-----	28	145,876	765,609	843,370	836,327	7,043	2,264,611	1,421,241
	1919	193	76	1,263	57	-----	57	134,561	1,339,971	1,656,821	1,642,704	14,117	4,304,745	2,647,924
Florida.....	1929	70	548	12,072	445	10	435	1,359,794	12,164,810	15,098,547	15,057,832	40,715	41,066,735	25,988,188
	1927	87	876	11,164	411	7	404	1,633,578	12,323,259	14,860,635	14,821,071	59,764	39,817,637	24,976,822
	1919	280	720	12,393	192	-----	192	1,897,486	11,874,880	15,534,255	15,527,986	6,209	37,926,394	22,392,139
Georgia.....	1929	13	7	319	53	-----	53	11,022	174,395	340,976	338,259	2,717	647,937	306,961
	1927	20	8	677	108	-----	108	10,951	257,965	432,583	431,912	671	868,600	456,026
	1919	54	15	278	16	-----	16	21,992	226,733	422,629	420,789	1,840	917,690	495,061
Illinois.....	1929	137	104	868	43	-----	43	210,184	927,128	1,278,340	1,269,500	8,840	3,273,600	1,995,280
	1927	189	144	1,173	55	-----	55	299,552	1,301,023	1,716,738	1,703,636	13,102	4,449,812	2,733,074
	1919	1,182	233	3,363	76	-----	76	345,147	2,976,365	5,337,703	5,295,208	42,495	11,827,472	6,459,769
Indiana.....	1929	31	96	3,238	726	600	126	346,685	1,924,509	3,948,222	3,928,165	20,057	8,653,304	4,705,062
	1927	40	127	3,445	724	607	117	380,989	2,070,467	4,526,321	4,505,630	20,691	9,401,657	4,901,657
	1919	262	170	4,154	556	306	250	345,280	2,467,219	4,978,844	4,953,343	25,501	10,065,943	5,687,099
Iowa.....	1929	20	26	307	22	-----	22	44,325	214,129	276,357	272,453	3,699	676,297	399,940
	1927	27	39	417	20	-----	20	74,443	424,825	425,792	426,963	4,829	1,026,747	600,955
	1919	211	94	1,305	56	-----	56	127,908	1,019,230	1,821,579	1,808,951	12,628	3,976,795	2,155,216
Kansas.....	1929	6	2	92	4	-----	4	1,500	39,499	74,918	74,162	756	194,970	120,052
	1927	10	6	86	5	-----	5	15,115	48,262	91,466	90,153	1,313	195,550	104,084
	1919	83	12	239	36	15	21	20,693	155,893	359,836	355,507	4,829	771,464	411,628

See footnotes at end of table.

TABLE 2.—GENERAL STATISTICS FOR THE TOBACCO MANUFACTURES INDUSTRIES, BY STATES: 1929, 1927, AND 1919—Continued

[See note at head of this table]

STATE	Cen- sus year	Num- ber of estab- lish- ments	Salaried officers and em- ployees	Wage carners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PUR- CHASED ELECTRIC ENERGY			Value of products ¹	Value added by manufac- ture ²
					Total	Prime movers	Motors run by pur- chased energy			Total	Materials and con- tainers	Fuel and purchased energy		
CIGARS AND CIGARETTES —continued														
Kentucky.....	1929	18	117	2,254	1,751	150	1,601	288,012	1,353,517	8,108,707	8,064,417	44,350	25,917,627	17,808,860
	1927	19	132	1,933	684	150	534	173,474	980,351	3,000,670	2,993,750	15,920	8,886,400	5,876,739
	1919	76	102	1,271	145	60	85	158,924	733,501	1,636,360	1,626,590	9,770	3,581,321	1,944,961
Louisiana.....	1929	12	54	1,287	76	---	76	130,160	915,513	1,819,223	1,811,253	7,970	3,768,439	1,949,216
	1927	15	96	1,440	56	---	56	141,341	1,040,537	2,057,638	2,048,854	8,784	4,159,673	2,102,035
	1919	46	180	2,171	339	125	214	311,408	1,051,988	3,420,291	3,408,063	12,228	8,221,413	4,801,122
Maine.....	1929	6	8	105	6	---	6	13,055	107,756	162,237	161,138	1,099	375,913	213,676
	1927	11	8	120	7	---	7	10,099	144,503	214,749	213,451	1,298	473,891	269,142
	1919	52	11	166	4	---	4	8,172	153,417	260,958	257,993	2,968	555,280	294,322
Maryland.....	1929	20	44	553	84	---	84	73,850	391,130	859,766	853,958	5,798	1,775,675	915,919
	1927	26	122	1,583	290	---	290	182,708	1,333,164	2,859,116	2,830,285	19,831	6,282,020	3,431,904
	1919	146	157	2,648	460	184	276	235,829	1,918,182	3,560,508	3,528,780	21,728	8,190,479	4,639,971
Massachusetts.....	1929	56	121	1,169	223	---	223	389,096	1,179,027	2,702,764	2,686,383	16,431	6,078,945	3,871,181
	1927	53	118	1,619	211	---	211	327,380	1,896,292	3,065,645	3,050,078	13,572	6,912,819	3,848,674
	1919	262	195	2,946	172	24	148	330,738	3,327,209	4,850,457	4,830,159	20,298	11,560,443	6,708,986
Michigan.....	1929	42	138	4,073	586	---	586	528,961	3,089,112	7,346,554	7,288,266	58,288	15,103,327	7,756,773
	1927	55	209	4,325	506	---	506	522,676	3,260,542	8,307,463	8,740,919	60,544	16,038,444	7,230,981
	1919	349	418	5,456	204	---	204	736,221	4,207,878	8,390,279	8,355,514	34,765	18,118,556	9,728,277
Minnesota.....	1929	22	26	281	41	---	41	51,829	237,156	382,355	376,848	5,507	975,234	592,879
	1927	31	31	378	17	---	17	48,263	281,110	463,305	458,826	4,569	1,129,749	666,354
	1919	216	87	891	62	---	62	168,465	741,093	1,472,373	1,456,932	15,441	3,205,020	1,782,647
Missouri.....	1929	29	33	478	17	---	17	65,884	349,021	621,378	617,796	3,582	1,381,030	859,662
	1927	38	65	442	15	---	15	129,060	348,734	450,987	447,318	3,669	1,214,235	763,248
	1919	279	59	932	27	---	27	81,261	688,260	1,288,351	1,280,378	7,973	2,820,604	1,541,253
Montana.....	1929	5	1	18	4	---	4	2,600	18,195	33,294	32,460	825	67,089	34,265
	1927	5	1	22	4	---	4	2,600	23,017	35,503	34,723	780	75,556	40,053
	1919	29	4	44	4	---	4	67,341	145,476	145,676	143,662	1,814	285,338	139,862
Nebraska.....	1929	11	13	109	12	---	12	20,772	63,052	117,540	115,723	1,817	297,348	179,898
	1927	14	23	219	11	---	11	40,612	140,193	252,216	249,988	2,218	509,050	257,434
	1919	82	31	428	19	---	19	47,978	273,365	655,375	649,019	6,358	1,133,197	477,822
New Jersey.....	1929	60	589	9,884	3,040	205	2,835	1,497,357	7,823,087	30,047,022	29,862,277	184,745	75,685,311	45,638,289
	1927	67	788	10,316	2,816	383	2,433	1,443,970	8,167,087	24,092,533	23,904,714	187,819	59,581,020	35,489,687
	1919	308	835	8,443	2,353	805	1,548	1,399,295	6,430,852	14,108,642	14,102,730	86,734	32,298,903	18,190,439
New York.....	1929	379	651	8,602	2,850	236	2,614	1,734,124	9,075,311	28,041,246	27,896,669	144,577	81,680,242	53,644,996
	1927	398	798	9,537	3,129	235	2,894	1,727,653	9,795,715	32,191,553	32,030,678	160,875	93,267,526	61,075,973
	1919	2,163	2,838	21,095	4,278	1,576	2,702	6,005,189	18,217,342	69,061,372	68,678,806	282,597	163,104,747	94,043,376
North Carolina.....	1929	8	4,430	13,778	25,475	21,005	4,470	7,937,770	11,783,472	139,613,094	139,178,118	434,976	480,038,850	340,425,756
	1927	14	4,101	14,081	13,739	11,327	2,412	7,548,895	11,822,745	117,565,177	117,219,158	346,019	392,050,130	274,484,958
	1919	18	1,620	11,683	5,419	4,735	684	3,000,621	11,379,245	106,957,075	106,675,741	281,334	226,635,811	119,673,736
Ohio.....	1929	107	167	6,193	755	---	755	410,076	3,955,792	7,165,687	7,097,387	68,300	16,548,804	9,833,177
	1927	112	274	7,362	761	10	751	534,428	4,047,562	8,849,989	8,782,200	67,789	18,885,334	10,035,845
	1919	676	479	10,995	696	37	659	1,127,777	7,181,603	13,115,631	13,043,378	72,263	28,864,444	15,738,813
Pennsylvania.....	1929	330	1,101	25,221	7,033	1,486	5,547	2,824,105	18,728,740	47,407,290	47,045,212	362,078	108,061,016	60,653,726
	1927	460	1,396	30,028	5,804	685	5,119	2,709,428	22,575,034	50,639,132	50,247,552	391,580	124,324,967	73,685,835
	1919	1,595	2,182	30,380	3,717	2,281	1,436	3,638,954	22,184,046	42,950,082	42,690,810	269,272	98,370,923	55,420,841
Rhode Island.....	1929	7	12	107	23	---	23	20,148	55,551	122,976	120,712	2,264	293,682	171,006
	1927	(¹)	(¹)	(¹)	(¹)	---	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1919	48	7	177	4	---	4	14,779	104,753	217,218	214,160	3,058	593,061	365,843
South Dakota.....	1929	5	1	12	4	---	4	1,000	11,538	16,544	15,847	607	41,588	25,044
	1927	8	10	51	2	---	2	13,200	37,742	61,540	60,762	787	153,956	92,407
	1919	29	16	162	6	---	6	25,743	124,004	306,797	304,273	2,524	625,091	318,294
Virginia.....	1929	12	268	6,375	5,458	1,600	3,858	584,042	4,710,187	45,741,011	45,586,659	154,953	147,701,545	101,960,634
	1927	15	217	6,762	5,503	2,285	3,218	567,568	4,812,071	41,078,524	41,615,452	163,072	126,888,241	85,206,717
	1919	49	660	7,335	4,300	3,400	900	1,018,882	5,448,166	36,473,774	36,305,470	168,304	63,273,138	26,799,364
Washington.....	1929	5	1	15	---	---	---	1,300	13,528	19,283	19,223	60	49,220	29,937
	1927	4	3	19	1	---	1	6,186	18,682	28,425	28,270	155	68,380	39,955
	1919	56	7	144	4	---	4	22,618	155,038	188,747	186,972	1,775	539,688	350,941
Wisconsin.....	1929	97	50	530	50	---	50	105,308	512,589	725,437	717,160	8,277	1,843,944	1,118,507
	1927	119	56	730	47	---	47	115,616	690,814	1,013,475	1,003,382	10,093	2,439,537	1,426,062
	1919	541	100	1,696	562	14	548	159,931	1,484,013	2,588,389	2,564,196	22,193	5,888,576	3,302,187
Other States.....	*1929	81	470	6,593	715	---	715	979,411	4,954,822	13,898,181	13,858,419	44,762	42,305,633	28,407,462
	*1927	111	561	7,476	862	---	862	1,009,566	5,682,089	15,005,506	14,982,865	52,641	43,744,490	28,738,984
	*1919	568	622	6,365	737	47	690	923,493	4,778,797	10,813,786	10,766,151	48,585	24,406,486	13,595,750

See footnotes at end of table.

TOBACCO MANUFACTURES

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TABLE 2.—GENERAL STATISTICS FOR THE TOBACCO MANUFACTURES INDUSTRIES, BY STATES: 1929, 1927, AND 1919—Continued

[See note at head of this table]

STATE	Cen- sus year	Number of estab- lish- ments	Salaried officers and em- ployees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PUR- CHASED ELECTRIC ENERGY			Value of products ¹	Value added by manufac- ture ²
					Total	Prime movers	Motors run by pur- chased energy			Total	Materials and con- tainers	Fuel and purchased energy		
TOBACCO: CHEWING AND SMOKING, AND SNUFF														
United States.....	1929	152	1,053	10,811	15,467	10,255	5,212	\$3,281,688	\$8,955,451	\$72,494,329	\$71,935,961	\$498,368	\$179,332,951	\$106,838,622
	1927	169	1,314	13,125	16,566	11,114	5,452	\$3,520,768	\$10,661,420	\$85,310,438	\$84,667,510	\$642,928	\$198,244,677	\$112,934,239
	1919	365	3,819	18,324	18,893	15,351	3,542	\$6,918,491	\$12,674,736	\$130,270,388	\$129,419,465	\$850,923	\$239,270,718	\$109,000,380
Indiana.....	1929	9	3	24	27	11	16	\$3,400	\$17,986	\$60,685	\$65,957	\$728	\$178,585	\$111,900
	1927	8	4	30	22	6	16	\$7,608	\$17,901	\$76,609	\$75,877	\$732	\$177,231	\$100,622
	1919	14	8	49	21	13	8	\$9,742	\$36,380	\$139,324	\$138,406	\$918	\$279,369	\$140,045
Iowa.....	1929	4	1	15	6	-----	6	\$1,456	\$10,325	\$35,202	\$34,642	\$560	\$90,867	\$55,165
	1927	3	2	10	6	-----	6	\$3,820	\$8,084	\$38,551	\$38,125	\$426	\$85,954	\$47,403
	1919	6	11	42	19	-----	19	\$32,144	\$24,257	\$215,513	\$212,582	\$2,931	\$432,867	\$217,344
New York.....	1929	18	20	99	146	-----	146	\$44,574	\$90,871	\$369,252	\$363,425	\$5,827	\$1,076,867	\$707,115
	1927	18	27	125	147	-----	137	\$59,194	\$119,676	\$584,318	\$575,971	\$8,347	\$1,377,579	\$793,261
	1919	70	64	190	256	72	184	\$100,157	\$137,998	\$1,598,469	\$1,498,618	\$9,851	\$2,687,794	\$1,179,325
Pennsylvania.....	1929	27	37	264	714	242	472	\$179,648	\$267,849	\$2,114,506	\$2,188,065	\$25,841	\$4,408,939	\$2,294,433
	1927	28	69	376	995	220	775	\$219,135	\$347,233	\$2,260,741	\$2,137,993	\$22,748	\$4,277,043	\$2,116,302
	1919	64	305	405	1,003	560	443	\$199,083	\$352,995	\$3,547,276	\$3,522,080	\$25,196	\$5,422,593	\$1,873,317
Tennessee.....	1929	11	84	1,007	2,455	2,121	334	\$279,182	\$754,662	\$8,410,450	\$8,347,679	\$62,771	\$16,871,822	\$8,461,372
	1927	10	85	978	2,084	2,053	31	\$256,991	\$726,543	\$9,218,540	\$9,163,440	\$55,106	\$16,207,652	\$6,989,106
Virginia.....	1929	6	156	1,507	1,730	734	996	\$746,543	\$933,858	\$7,892,329	\$7,837,768	\$54,561	\$17,744,995	\$9,852,667
	1927	7	162	1,831	1,399	605	794	\$763,020	\$1,115,286	\$9,259,113	\$9,197,497	\$61,616	\$17,978,456	\$8,719,343
	1919	14	320	2,078	1,071	660	411	\$648,681	\$1,067,273	\$9,137,540	\$9,032,786	\$104,760	\$15,076,671	\$5,939,125
Wisconsin.....	1929	4	4	24	15	-----	15	\$11,780	\$19,637	\$58,710	\$58,163	\$547	\$126,299	\$67,580
	1927	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)
	1919	11	64	263	320	252	68	\$151,863	\$207,793	\$1,972,708	\$1,961,840	\$10,868	\$4,119,013	\$2,145,305
Groups of States: Conn., 1 est.; Mass., 6; R. I., 1.....	1929	7	12	35	424	405	19	\$28,296	\$44,277	\$93,704	\$90,211	\$3,493	\$359,722	\$266,018
Del., 1 est.; N. J., 3; W. Va., 1.....	1929	5	139	700	1,690	1,642	48	\$462,180	\$328,427	\$5,112,595	\$5,068,036	\$44,559	\$16,064,976	\$10,952,381
Ill., 9 est.; Mich., 3; Minn., 1; Mo., 6; Ohio, 23.....	1929	42	431	4,409	6,383	4,285	2,098	\$1,137,478	\$4,506,856	\$41,197,233	\$40,983,498	\$213,735	\$102,348,591	\$61,151,358
Other States (Calif., 1 est.; Ky., 13; La., 1; N. C., 3; Tex., 1).....	1929	10	106	2,667	1,877	815	1,062	\$387,151	\$1,490,703	\$7,143,063	\$7,057,917	\$85,746	\$20,062,296	\$12,918,623
States not shown sepa- rately.....	¹⁰ 1927	85	965	9,775	11,913	8,220	3,688	\$2,221,000	\$8,322,697	\$63,372,560	\$63,378,607	\$493,953	\$158,040,769	\$94,168,202
	¹¹ 1919	186	3,057	15,297	16,203	13,794	2,409	\$5,770,821	\$10,848,042	\$113,749,552	\$113,053,153	\$696,399	\$211,252,421	\$97,502,809

¹ The figures for 1929 refer to sales (shipments or deliveries) by manufacturers; those for earlier years represent production. See GENERAL EXPLANATIONS—Value of Products.

² Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

³ Not including proprietors and firm members, as follows: For 1929, 1,518; 1927, 1,832; 1919, 10,464. The total numbers of persons engaged—proprietors and firm members, salaried officers and employees, and wage earners—as reported for the industry, are as follows: For 1929, 115,957; 1927, 128,345; 1919, 161,067.

⁴ Data for purchased power other than electric (power transmitted into the plant by belt or shaft) are included in the State items for 1919 but not in the United States totals.

⁵ Withheld from publication in order to avoid disclosing data for individual establishments.

⁶ Arkansas, 1 establishment; California, 36; Delaware, 1; Idaho, 1; New Hampshire, 9; Oklahoma, 1; Oregon, 2; South Carolina, 4; Tennessee, 10; Texas, 2; Utah, 2; Vermont, 1; West Virginia, 11.

⁷ Arkansas, 1 establishment; California, 49; Delaware, 3; Idaho, 2; New Hampshire, 4; Oklahoma, 3; Oregon, 3; Rhode Island, 8; South Carolina, 4; Tennessee, 12; Texas, 3; Utah, 3; Vermont, 1; West Virginia, 13; Wyoming, 2.

⁸ Arizona, 3 establishments; Arkansas, 8; California, 244; Delaware, 11; District of Columbia, 9; Idaho, 17; Nevada, 5; New Hampshire, 19; New Mexico, 3; North Dakota, 14; Oklahoma, 18; Oregon, 41; South Carolina, 6; Tennessee, 23; Texas, 42; Utah, 15; Vermont, 14; West Virginia, 65; Wyoming, 11.

⁹ Not including proprietors and firm members, as follows: For 1929, 117; 1927, 109; 1919, 325. The total numbers of persons engaged—proprietors and firm members, salaried officers and employees, and wage earners—as reported for the industry, are as follows: For 1929, 11,931; 1927, 14,548; 1919, 22,468.

¹⁰ California, 1 establishment; Connecticut, 1; Delaware, 1; Illinois, 9; Kentucky, 19; Louisiana, 1; Massachusetts, 4; Michigan, 2; Minnesota, 1; Missouri, 6; New Jersey, 3; North Carolina, 6; Ohio, 25; Texas, 1; West Virginia, 1; Wisconsin, 4.

¹¹ Arizona, 1 establishment; California, 1; Colorado, 2; Connecticut, 5; Delaware, 1; Georgia, 1; Illinois, 31; Kentucky, 24; Louisiana, 1; Maryland, 2; Massachusetts, 7; Michigan, 14; Minnesota, 4; Missouri, 11; New Jersey, 10; North Carolina, 11; Ohio, 34; Rhode Island, 3; Tennessee, 19; Texas, 1; West Virginia, 3.

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TABLE 3.—PRODUCTS, BY KIND AND VALUE, FOR THE TOBACCO INDUSTRIES IN COMBINATION AND SEPARATELY: 1929 AND 1927

	1929	1927		1929	1927
Tobacco industries, all products, aggregate value.	\$1, 246, 241, 839	\$1, 163, 768, 379	Tobacco industries, all products—Continued.		
Cigars, total.....	309, 327, 032	336, 080, 515	" Tobacco: Chewing and smoking, and snuff" industry, all products, total value.....	\$179, 332, 951	\$198, 244, 677
Cigarettes, total.....	668, 243, 257	557, 715, 047	Cigars.....	116, 132	54, 214
Chewing and smoking tobacco, total.....	232, 607, 120	238, 508, 515	Cigarettes.....	208, 131	5, 844, 110
Snuff, total.....	32, 479, 248	29, 150, 915	Chewing and smoking tobacco.....	144, 689, 820	163, 147, 098
All other products, total.....	3, 585, 132	2, 313, 387	Snuff.....	32, 479, 248	29, 150, 915
" Cigars and cigarettes" industry, all products, total value.....	1, 066, 908, 888	965, 523, 702	All other products.....	1, 839, 620	48, 331
Cigars.....	309, 210, 900	336, 028, 301			
Cigarettes.....	668, 035, 128	551, 870, 928			
Chewing and smoking tobacco.....	87, 917, 300	75, 361, 417			
All other products.....	1, 745, 562	2, 265, 056			

TABLE 4.—TOBACCO PRODUCTS, BY KIND AND VALUE, FOR THE TOBACCO INDUSTRIES AS A GROUP, BY STATES: 1929 AND 1927

[This table presents statistics for all States for which separate figures can be given without disclosing the production of individual establishments. Certain of the "Other States," however, reported larger values of the specified products than some of the States shown separately.]

KIND	VALUE		KIND	VALUE	
	1929	1927		1929	1927
Cigars, total.....	\$309, 327, 032	\$336, 080, 515	Cigars—Continued.		
Alabama.....	73, 350	89, 821	Rhode Island.....	\$292, 507	\$469, 331
California.....	3, 483, 574	3, 196, 934	South Dakota.....	40, 563	150, 680
Colorado.....	292, 701	287, 412	Washington.....	49, 220	68, 380
Connecticut.....	2, 101, 597	2, 256, 355	Wisconsin.....	1, 861, 776	2, 423, 789
Florida.....	40, 856, 837	39, 656, 156	Other States.....	1 25, 164, 491	1 25, 009, 835
Georgia.....	647, 937	868, 609	Cigarettes, total.....	668, 243, 257	557, 715, 047
Illinois.....	3, 166, 122	4, 319, 299	Kentucky.....	21, 710, 492	(*)
Indiana.....	8, 488, 400	9, 244, 889	North Carolina.....	397, 094, 883	326, 438, 332
Iowa.....	632, 377	886, 775	Other States.....	1 249, 437, 882	1 231, 276, 715
Kansas.....	187, 934	185, 289	Chewing and smoking tobacco, total.....	232, 607, 120	238, 508, 515
Kentucky.....	3, 141, 348	3, 848, 863	California.....	102, 386	54, 886
Louisiana.....	3, 768, 859	4, 081, 204	Indiana.....	201, 695	198, 268
Maine.....	375, 070	471, 601	Iowa.....	112, 588	121, 015
Maryland.....	1, 775, 673	6, 226, 659	Kentucky.....	12, 166, 804	20, 995, 282
Massachusetts.....	5, 964, 519	6, 774, 305	Massachusetts.....	54, 909	33, 210
Michigan.....	15, 017, 415	15, 018, 932	Minnesota.....	25, 184	80, 541
Minnesota.....	965, 913	1, 104, 982	New Jersey.....	254, 148	270, 625
Missouri.....	1, 380, 673	1, 207, 852	New York.....	4, 205, 775	5, 000, 834
Montana.....	67, 024	74, 574	Pennsylvania.....	4, 520, 115	4, 454, 784
Nebraska.....	291, 281	504, 962	Tennessee.....	1, 711, 322	(*)
New Jersey.....	43, 116, 312	58, 873, 397	Virginia.....	18, 409, 809	18, 134, 864
New York.....	29, 697, 865	28, 137, 200	Other States.....	1 190, 842, 385	1 189, 205, 236
North Carolina.....	647, 811	1, 203, 986	Snuff 1.....	32, 479, 248	29, 150, 915
Ohio.....	16, 424, 099	18, 624, 640			
Pennsylvania.....	99, 344, 222	99, 824, 674			

1 Arkansas, Delaware, Idaho, New Hampshire, Oklahoma, Oregon, South Carolina, Tennessee, Texas, Utah, Vermont, Virginia, West Virginia.
2 Arkansas, Delaware, Idaho, New Hampshire, Oklahoma, Oregon, South Carolina, Tennessee, Texas, Utah, Vermont, Virginia, West Virginia, Wyoming.
3 Withheld from publication in order to avoid disclosing data for individual establishments.
4 California, Florida, Illinois, Louisiana, Massachusetts, Michigan, Missouri, New Jersey, New York, Pennsylvania, Virginia.
5 California, Florida, Illinois, Indiana, Kentucky, Louisiana, Massachusetts, Michigan, Missouri, New Jersey, New York, Ohio, Pennsylvania, Virginia, West Virginia, Wisconsin.
6 Arkansas, Colorado, Connecticut, Florida, Illinois, Kansas, Louisiana, Michigan, Missouri, Montana, Nebraska, North Carolina, Ohio, Rhode Island, South Carolina, South Dakota, Texas, West Virginia.
7 Alabama, Arkansas, Colorado, Connecticut, Florida, Illinois, Kansas, Louisiana, Maryland, Michigan, Missouri, Montana, Nebraska, North Carolina, Ohio, Oregon, South Carolina, Tennessee, Texas, Utah, West Virginia, Wisconsin.
8 State figures withheld from publication in order to avoid disclosing data for individual establishments.

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TABLE 5.—PRIME MOVERS, MOTORS, GENERATORS, AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY—NUMBER AND RATED CAPACITY OF PRIME MOVERS AND ELECTRIC MOTORS, 1929, 1927, 1925, 1919, AND 1914, AND OF GENERATORS, 1929, 1927, AND 1925; QUANTITY OF ELECTRIC ENERGY PURCHASED, 1929; FOR THE TOBACCO INDUSTRIES IN COMBINATION AND SEPARATELY

TYPE	1929		1927		1925		1919		1914		PER CENT DISTRIBUTION OF RATED HORSEPOWER CAPACITY	
	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	1929	1919
THE TOBACCO INDUSTRIES												
Prime movers and electric motors driven by purchased energy, aggregate	14,433	Horse-power 64,984	11,398	Horse-power 52,385	6,312	Horse-power 42,075	3,676	Horse-power 43,390	1,877	Horse-power 34,758	100.0	100.0
Prime movers, total	170	36,447	159	26,803	171	25,418	294	28,960	353	26,790	54.5	66.7
Steam, total	152	34,761	135	25,091	154	25,138	248	28,213	269	25,853	53.5	65.0
Engines	128	18,118	127	18,690	142	21,058	238	25,881	(1)	(1)	27.9	59.6
Turbines	24	16,643	8	6,401	12	4,100	10	2,332	(1)	(1)	25.6	5.4
Internal-combustion engines	11	316	15	1,440	11	73	32	345	72	680	0.5	0.8
Water wheels and water turbines	7	370	9	272	6	207	14	402	12	257	0.5	0.9
Electric motors driven by purchased energy	14,263	29,537	11,239	25,582	6,141	16,657	3,382	14,430	1,524	7,966	45.5	33.3
Electric motors, total	18,993	52,149	14,555	41,292	9,303	31,631	5,224	27,877	2,462	17,755	100.0	100.0
Driven by purchased energy	14,263	29,537	11,239	25,582	6,141	16,657	3,382	14,430	1,524	7,966	56.6	61.8
Driven by energy generated in establishments reporting	4,730	22,612	3,316	15,710	3,162	14,974	1,842	13,447	938	9,789	43.4	48.2
Electric generators	66	Kilowatts 20,703 Kilowatt-hours	71	Kilowatts 15,799	85	Kilowatts 14,978	(1)	(1)	(1)	(1)		
Electric energy purchased ¹		37,891,156		(1)		(1)		(1)		(1)		
CIGARS AND CIGARETTES												
Prime movers and electric motors driven by purchased energy, aggregate	13,501	Horse-power 49,517	10,511	Horse-power 35,810	5,651	Horse-power 24,534	3,053	Horse-power 24,497	1,277	Horse-power 13,453	100.0	100.0
Prime movers, total	69	25,192	46	15,689	46	12,196	120	13,699	149	8,738	50.9	55.5
Steam, total	63	24,897	35	14,288	39	12,141	94	13,187	97	8,303	50.3	63.8
Engines	40	8,304	27	7,887	33	8,845	86	10,901	(1)	(1)	16.8	44.5
Turbines	23	16,563	8	6,401	6	3,296	8	2,286	(1)	(1)	33.5	9.3
Internal-combustion engines	6	295	9	1,399	7	55	24	302	52	435	0.6	1.2
Water wheels and water turbines			2	2			2	120				0.5
Electric motors driven by purchased energy	13,432	24,325	10,465	20,130	5,605	12,338	2,933	10,888	1,128	4,745	49.1	44.5
Electric motors, total	17,351	42,000	12,813	29,270	7,913	20,901	4,060	17,628	1,341	7,018	100.0	100.0
Driven by purchased energy	13,432	24,325	10,465	20,130	5,605	12,338	2,933	10,888	1,128	4,745	57.8	61.8
Driven by energy generated in establishments reporting	3,919	17,765	2,348	9,140	2,308	8,563	1,127	6,740	213	2,273	42.2	38.2
Electric generators	31	Kilowatts 13,502 Kilowatt-hours	30	Kilowatts 10,960	33	Kilowatts 8,165	(1)	(1)	(1)	(1)		
Electric energy purchased ¹		33,901,190		(1)		(1)		(1)		(1)		
TOBACCO: CHEWING AND SMOKING, AND SNUFF												
Prime movers and electric motors driven by purchased energy, aggregate	932	Horse-power 15,467	887	Horse-power 16,566	661	Horse-power 17,541	623	Horse-power 18,893	600	Horse-power 21,273	100.0	100.0
Prime movers, total	101	10,255	113	11,114	125	13,222	174	15,351	204	18,052	66.3	81.2
Steam, total	89	9,864	100	10,803	115	12,997	154	15,026	172	17,550	63.8	79.5
Engines	88	9,814	100	10,803	109	12,193	152	14,980	(1)	(1)	63.5	79.3
Turbines	1	50			6	804	2	46	(1)	(1)	0.3	0.2
Internal-combustion engines	5	21	6	41	4	18	8	43	20	245	0.1	0.2
Water wheels and water turbines	7	370	7	270	6	207	12	282	12	257	2.4	1.5
Electric motors driven by purchased energy	831	5,212	774	5,452	536	4,319	449	3,542	396	3,221	33.7	18.8
Electric motors, total	1,642	10,059	1,742	12,022	1,390	10,730	1,164	10,249	1,121	10,737	100.0	100.0
Driven by purchased energy	831	5,212	774	5,452	536	4,319	449	3,542	396	3,221	61.8	24.6
Driven by energy generated in establishments reporting	811	4,847	968	6,570	854	6,411	715	6,707	725	7,516	48.2	65.4
Electric generators	35	Kilowatts 4,141 Kilowatt-hours	41	Kilowatts 4,839	52	Kilowatts 6,813	(1)	(1)	(1)	(1)		
Electric energy purchased ¹		3,939,966		(1)		(1)		(1)		(1)		

¹ Not called for separately on schedule.

² Not called for on schedule.

³ This item covers the consumption of purchased electric energy for all purposes—power, heat, light, etc.

⁴ Data incomplete.

CENSUS OF MANUFACTURES: 1929

TABLE 6.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1929, 1925, 1919, AND 1914, AND BY STATES, 1929, FOR THE TOBACCO INDUSTRIES

[This table presents statistics for only those States for which figures can be given without disclosing data for individual establishments. The sum of the State items in any column is not, therefore, equal to the United States total at the head of the column. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures]

STATE	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum			
		January	February	March	April	May	June	July	August	September	October	November	December				
CIGARS AND CIGARETTES																	
United States:																	
1929	105,308	<i>100,240</i>	103,003	102,870	102,629	103,460	103,962	104,551	106,965	108,502	110,666	110,397	105,749	91.2			
1925	117,108	116,675	117,551	116,515	<i>112,360</i>	113,648	113,117	114,478	115,635	117,877	121,463	123,609	122,374	90.9			
1919	138,773	142,147	142,495	142,333	138,028	137,068	133,736	124,519	<i>117,633</i>	130,455	143,071	155,729	158,112	74.3			
1914	152,592	151,986	153,232	153,488	<i>149,915</i>	152,070	152,270	152,213	153,363	154,810	156,404	154,005	150,948	95.9			
Alabama	25	25	25	25	25	25	25	25	25	25	25	25	25	-----			
Colorado	117	141	131	129	113	117	116	117	115	113	<i>104</i>	105	<i>104</i>	73.8			
Connecticut	693	625	620	612	<i>585</i>	586	594	605	606	604	604	597	602	93.6			
Florida	12,072	<i>10,024</i>	11,250	11,617	11,604	11,620	11,952	12,171	12,732	12,924	13,238	13,365	12,369	75.0			
Georgia	319	298	297	300	298	<i>294</i>	318	320	320	360	345	347	346	84.0			
Illinois	868	851	848	828	878	852	871	892	873	886	885	847	903	91.7			
Indiana	3,238	3,320	3,294	3,094	3,095	3,132	3,229	3,222	3,250	3,405	3,556	3,258	<i>3,005</i>	84.5			
Iowa	307	313	300	310	308	304	<i>300</i>	301	303	304	305	314	309	95.5			
Kansas	92	<i>67</i>	89	94	92	93	92	92	96	100	99	94	92	67.0			
Kentucky	2,284	<i>2,110</i>	2,254	2,335	2,309	2,315	2,408	2,363	2,306	2,223	2,277	2,281	2,233	87.9			
Louisiana	1,287	<i>1,260</i>	1,265	1,277	1,275	1,267	1,268	1,269	1,268	1,319	1,318	1,355	1,323	94.4			
Maine	105	107	109	108	108	<i>108</i>	104	104	<i>108</i>	104	<i>102</i>	100	109	93.6			
Maryland	553	<i>423</i>	505	536	519	493	513	511	543	591	640	674	682	62.0			
Massachusetts	1,169	<i>1,032</i>	1,157	1,119	1,116	1,211	1,238	1,210	1,242	1,216	1,196	1,141	1,144	83.1			
Michigan	4,073	3,999	4,044	4,002	3,985	<i>3,956</i>	3,957	4,004	4,008	4,212	4,365	4,152	4,077	90.6			
Minnesota	281	273	<i>266</i>	275	279	282	288	285	276	284	286	290	284	91.7			
Missouri	478	509	500	476	482	477	467	469	470	480	474	466	<i>465</i>	91.4			
Montana	18	19	21	<i>10</i>	19	18	18	22	16	18	17	15	17	45.5			
Nebraska	109	120	117	114	108	109	103	102	<i>101</i>	104	108	111	112	84.2			
New Jersey	9,884	9,653	<i>9,243</i>	9,585	9,764	9,944	9,315	9,382	9,733	9,993	10,568	10,941	10,490	84.5			
New York	8,602	8,282	8,473	8,663	8,676	8,796	8,845	8,697	8,793	8,791	8,963	8,639	<i>7,619</i>	85.1			
North Carolina	13,778	13,937	13,863	13,275	<i>13,160</i>	13,370	13,575	13,711	14,035	14,033	13,953	14,118	14,302	92.0			
Ohio	6,193	6,393	6,338	6,249	6,099	5,909	<i>5,872</i>	5,962	6,004	6,291	6,492	6,546	6,158	89.7			
Pennsylvania	25,221	<i>23,720</i>	24,259	24,380	24,226	24,365	24,650	25,266	25,998	26,255	27,096	26,956	25,474	87.5			
Rhode Island	107	138	123	127	116	121	110	111	113	120	118	118	40	29.4			
South Dakota	12	<i>10</i>	<i>10</i>	<i>10</i>	13	13	13	12	13	13	13	13	14	71.4			
Virginia	6,375	6,331	6,438	6,193	6,269	6,684	6,682	6,399	6,506	6,440	<i>6,091</i>	6,254	6,217	91.1			
Washington	15	<i>11</i>	12	12	15	16	17	18	18	17	15	14	14	61.1			
Wisconsin	530	508	512	<i>505</i>	508	506	520	515	518	562	565	572	572	88.3			
TOBACCO: CHEWING AND SMOKING, AND SNUFF																	
United States:																	
1929	10,811	10,824	11,147	11,179	10,983	10,875	10,767	10,815	10,847	<i>10,453</i>	10,782	10,642	10,451	93.3			
1925	15,024	15,122	15,558	15,121	14,866	14,779	14,857	15,013	15,018	15,161	15,122	14,907	<i>14,681</i>	94.4			
1919	18,324	17,907	18,043	<i>17,252</i>	17,484	17,536	17,519	16,219	16,810	19,392	19,596	19,446	18,684	88.0			
1914	25,980	26,555	27,332	27,995	27,566	26,320	25,679	25,479	24,918	25,811	24,892	24,575	<i>24,288</i>	86.8			
Indiana	24	28	30	32	33	19	23	23	23	21	21	21	<i>10</i>	67.6			
Iowa	15	15	15	15	15	15	15	15	15	15	15	15	15	-----			
New York	99	100	100	100	<i>99</i>	99	99	99	99	99	99	99	99	99.0			
Pennsylvania	264	<i>257</i>	259	262	263	263	266	267	267	268	266	267	268	95.9			
Tennessee	1,007	1,066	1,088	1,080	1,037	946	<i>954</i>	942	980	970	1,018	1,015	1,017	85.8			
Virginia	1,507	1,551	1,629	1,701	1,634	1,562	1,473	1,477	1,468	1,426	1,428	1,437	<i>1,304</i>	76.7			
Wisconsin	24	23	23	24	24	28	28	24	23	<i>22</i>	22	23	23	84.6			

TOYS (NOT INCLUDING CHILDREN'S WHEEL GOODS OR SLEDS), GAMES, AND PLAYGROUND EQUIPMENT

Because of the close relation and the amount of overlapping between this industry and the "Carriages and sleds, children's" industry, in Group 14, the reports for the two industries have been combined and are presented in the section for Group 14. (See p. 1194 to 1200.)

UMBRELLAS, PARASOLS, AND CANES

Description of the industry.—The principal products of this industry are umbrellas, parasols, canes, umbrella and parasol cases, handles other than gold or silver, and frames and other parts for umbrellas and parasols.

TABLE I.—SUMMARY FOR THE UNITED STATES: 1899 TO 1929

[Data for establishments with products under \$5,000 in value included for 1919 and prior years but not for 1921 and subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers for products, fuel, and purchased electric energy	Value of products ^{1,2}	Value added by manufacture ³	Horsepower
1929.....	141	2,855	\$2,768,410	\$10,907,373	\$17,994,376	\$7,087,003	3,069
1927.....	164	3,308	3,411,261	14,020,984	23,156,400	9,135,416	2,411
1925.....	176	3,731	3,696,014	16,594,328	27,299,431	10,705,103	3,027
1923.....	137	3,776	3,738,831	17,999,629	28,395,233	10,395,604	2,409
1921.....	154	3,149	3,126,246	16,888,759	20,607,762	9,119,003	(4)
1919.....	198	3,368	3,139,602	15,632,989	25,308,326	9,675,537	3,357
1914.....	265	4,792	2,767,453	8,591,867	13,513,353	5,221,486	2,544
1909.....	256	5,472	2,252,568	10,055,915	15,584,122	5,808,207	2,177
1904.....	204	5,396	1,825,043	8,250,246	13,296,046	5,645,500	1,946
1899.....	202	5,640	1,868,514	8,381,216	13,668,986	5,287,770	1,223
PER CENT OF INCREASE OR DECREASE (—)							
1927-1929.....	-14.0	-13.7	-18.8	-22.2	-22.3	-22.4	27.3
1925-1927.....	-6.8	-11.3	-7.7	-15.5	-15.2	-14.7	-20.4
1923-1925.....	-5.9	-1.2	-1.1	-7.8	-3.9	3.0	25.7
1921-1923.....	21.4	19.9	19.6	6.6	9.2	14.0	-----
1919-1921.....	-22.2	-6.5	-0.4	8.0	2.8	-5.8	-----
1919-1929.....	-28.8	-15.2	-11.8	-30.2	-28.9	-26.8	-8.6
1909-1919.....	-22.7	-38.5	39.4	55.5	59.5	66.6	54.2
1899-1909.....	26.7	-3.0	20.6	20.0	16.1	9.8	78.0

¹ For 1929, manufacturers' sales (shipments or deliveries); for earlier years, production. See GENERAL EXPLANATIONS—Value of Products.
² Includes value of miscellaneous products, normally belonging to other industries, made as secondary products by establishments engaged primarily in the manufacture of umbrellas, parasols, and canes, as follows: 1929, \$403,740; 1927, \$439,643; 1925, \$1,245,033; corresponding amounts for earlier years not available. Does not include following values of umbrellas, parasols, and canes made as secondary products by establishments engaged primarily in other lines of manufacture: 1929, \$467,895; 1927, \$335,333; 1925, \$41,969; 1923, \$301,698; 1921, \$79,990; 1919, \$81,964; corresponding amounts for earlier years not available.
³ Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.
⁴ Not called for on schedule

UMBRELLAS, PARASOLS, AND CANES

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TABLE 2.—GENERAL STATISTICS, BY STATES: 1929, 1927, AND 1919

[This table presents statistics separately for each State for which figures can be given without disclosing data for individual establishments, and for the remaining States in groups. Data for establishments with products under \$5,000 in value are included for 1919 but not for subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

STATE	Cen- sus year	Num- ber of estab- lish- ments	Salaried officers and em- ployees ¹	Wage earners (aver- age for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PUR- CHASED ELECTRIC ENERGY			Value of products ²	Value added by manu- facture ³
					Total	Prime movers	Motors run by pur- chased energy			Total	Materials and con- tainers	Fuel and pur- chased energy		
United States-----	1929	141	479	2,855	3,069	1,696	1,373	\$1,191,701	\$2,768,410	\$10,907,373	\$10,772,436	\$134,937	\$17,094,376	\$7,087,003
	1927	164	614	3,368	2,411	1,228	1,153	1,305,419	3,411,261	14,020,984	13,861,558	139,426	23,156,400	9,135,410
	1919	198	673	3,368	3,357	2,517	840	1,635,823	3,139,662	15,632,989	15,479,960	153,029	25,308,626	9,675,837
Individual States:														
Illinois-----	1929	4	6	47	6		6	13,251	51,488	260,804	259,804	1,000	373,359	112,555
	1927	4	10	57	3		3	12,845	52,007	283,704	282,886	878	405,030	121,266
Maryland-----	1929	5	58	420	53		53	135,485	283,974	1,550,762	1,550,749	6,013	2,355,923	799,161
	1927	5	62	427	51		51	107,474	325,629	1,782,278	1,777,843	4,435	2,791,570	1,009,292
	1919	8	91	377	47		47	202,357	219,924	1,803,267	1,797,516	5,751	2,729,891	926,624
Massachusetts-----	1929	6	16	109	80		80	30,379	93,626	519,106	511,076	7,030	779,744	261,638
	1927	9	21	167	161		161	33,813	187,934	559,344	549,541	9,803	984,927	425,583
	1919	7	13	50	63		63	8,134	38,832	274,830	272,168	2,662	435,290	160,460
New Jersey-----	1929	6	25	415	686	600	86	129,418	405,613	736,290	703,671	32,619	1,627,682	891,392
	1927	5	16	208	72		72	34,701	172,975	622,239	614,627	7,712	1,020,916	398,677
New York-----	1929	92	131	816	437	1	436	362,516	1,004,477	4,905,269	4,875,794	29,475	7,595,839	2,690,570
	1927	106	159	967	392		392	457,978	1,261,551	6,268,676	6,227,170	41,506	9,582,677	3,314,001
	1919	125	198	927	571	109	402	583,148	1,128,963	7,315,478	7,287,930	27,548	11,096,088	3,780,605
Ohio-----	1929	4	27	143	26		26	90,645	139,209	523,083	519,163	3,930	538,087	315,004
	1927	5	38	192	28		28	77,154	208,101	819,871	817,769	2,102	1,171,128	351,257
	1919	10	48	208	53	6	47	123,287	132,589	918,325	915,749	2,576	1,345,284	426,959
Pennsylvania-----	1929	15	188	815	1,581	1,095	486	349,242	711,657	2,139,860	2,085,107	45,753	3,899,862	1,769,002
	1927	20	278	1,203	1,601	1,225	376	512,953	1,124,496	3,399,792	3,332,945	67,747	6,706,662	3,306,870
	1919	21	162	1,376	1,734	1,582	202	458,956	1,209,951	4,369,667	4,268,592	75,475	7,247,263	2,878,196
Groups of States:														
La., 2 est.; Tenn., 1; Tex., 1-----	1929	4	12	35	48		48	37,302	27,280	108,285	106,719	1,566	206,222	97,937
Other States (Mich., 1 est.; Mo., 2; Wash., 1; Wis., 1)-----	1929	5	16	55	152		152	43,163	51,086	167,914	160,363	7,551	317,658	149,744
States not shown sepa- rately-----	1927	10	30	87	103	3	100	68,501	78,568	285,020	279,777	5,243	493,490	208,470
	1919	27	61	430	865	760	105	199,946	409,403	952,022	913,005	39,017	2,455,015	1,502,963

¹ Not including proprietors and firm members, as follows: For 1929, 127; 1927, 164; 1919, 232. The total numbers of persons engaged—proprietors and firm members, salaried officers and employees, and wage earners—are as follows: For 1929, 3,461; 1927, 4,083; 1919, 4,173.

² The figures for 1929 refer to sales (shipments or deliveries) by manufacturers; those for earlier years represent production. See GENERAL EXPLANATIONS—Value of Products.

³ Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATION—Value Added by Manufacture.

⁴ Data for purchased power other than electric (power transmitted into the plant by belt or shaft) are included in the State items for 1919 but not in the United States totals.

⁵ Arkansas, 1 establishment; Connecticut, 1; Louisiana, 2; Missouri, 3; Tennessee, 1; Washington, 1; Wisconsin, 1.

⁶ California, 1 establishment; Connecticut, 2; Florida, 1; Illinois, 2; Indiana, 1; Louisiana, 3; Michigan, 2; Missouri, 4; New Jersey, 5; Rhode Island, 1; South Carolina, 1; Utah, 1; Wisconsin, 3.

CENSUS OF MANUFACTURES: 1929

TABLE 3.—PRIME MOVERS, MOTORS, GENERATORS, AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY—NUMBER AND RATED CAPACITY OF PRIME MOVERS AND ELECTRIC MOTORS, 1929, 1927, 1925, 1919, AND 1914, AND OF GENERATORS, 1929, 1927, AND 1925; QUANTITY OF ELECTRIC ENERGY PURCHASED, 1929

TYPE	1929		1927		1925		1919		1914		PER CENT DISTRIBUTION OF RATED HORSEPOWER CAPACITY	
	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	1929	1919
		Horse-power 3,000		Horse-power 2,411		Horse-power 3,027		Horse-power 3,357		Horse-power 2,544		
Prime movers and electric motors driven by purchased energy, aggregate.....	680		624		618		515		436		100.0	100.0
Prime movers, total.....	11	1,696	10	1,228	12	1,570	24	2,517	33	1,950	55.3	75.0
Steam, total.....	11	1,696	9	1,225	10	1,550	15	2,404	17	1,688	55.3	73.4
Engines.....	9	1,096	9	1,225	10	1,550	13	2,314	(1)	(1)	35.7	65.9
Turbines.....	2	600					2	150	(1)	(1)	19.0	4.5
Internal-combustion engines.....					1	10	9	53	15	259		1.6
Water wheels and water turbines.....			1	3	1	10			1	12		
Electric motors driven by purchased energy.....	669	1,373	614	1,183	606	1,457	491	840	403	585	44.7	25.0
Electric motors, total.....	728	2,295	668	2,035	660	1,940	519	1,215	428	898	100.0	100.0
Driven by purchased energy.....	669	1,373	614	1,183	606	1,457	491	840	403	585	59.8	69.1
Driven by energy generated in establishments reporting.....	59	922	54	852	54	483	28	375	25	313	40.2	30.9
Electric generators.....	7	767 Kilo-watts Kilowatt-hours	6	650 Kilo-watts	7	800 Kilo-watts	(?)	(?)	(?)	(?)		
Electric energy purchased ¹		1,235,610		(4)		(4)		(?)		(?)		

¹ Not called for separately on schedule.

² Not called for on schedule.

³ This item covers the consumption of purchased electric energy for all purposes—power, heat, light, etc.

⁴ Data incomplete.

TABLE 4.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1929, 1925, 1919, 1914, AND 1909, AND BY STATES, 1929

[This table presents statistics for only those States for which figures can be given without disclosing data for individual establishments. The sum of the State items in any column is not, therefore, equal to the United States total at the head of the column. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures]

STATE	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum	
		January	February	March	April	May	June	July	August	September	October	November	December		
United States:															
1929.....	2,855	2,742	2,726	2,703	<i>2,697</i>	2,714	2,716	2,709	2,775	2,936	3,147	3,280	3,115	3,115	82.2
1925.....	3,731	3,698	3,697	3,657	3,692	3,515	3,503	<i>3,482</i>	3,523	3,722	4,056	4,157	4,158	4,158	83.7
1919.....	3,368	<i>3,016</i>	3,116	3,183	3,221	3,253	3,279	3,268	3,443	3,477	3,624	3,748	3,788	3,788	79.6
1914.....	4,792	5,015	5,150	5,143	5,060	4,981	4,760	4,473	<i>4,469</i>	4,726	4,738	4,519	4,470	4,470	86.8
1909.....	5,472	5,132	5,375	5,449	5,347	5,241	5,080	5,111	5,409	5,663	5,932	6,019	5,904	5,904	84.4
Illinois.....	47	46	47	48	46	46	48	40	<i>41</i>	51	46	49	62	62	78.8
Maryland.....	420	389	369	355	<i>354</i>	354	359	371	409	455	583	543	500	500	60.7
Massachusetts.....	109	<i>82</i>	99	97	110	112	107	85	93	112	125	143	137	137	67.3
New Jersey.....	415	400	379	<i>347</i>	355	363	414	447	447	465	447	478	441	441	72.6
New York.....	816	801	812	828	808	821	793	770	771	820	850	850	850	850	89.6
Ohio.....	143	<i>130</i>	135	137	131	131	139	147	150	144	152	162	158	158	80.2
Pennsylvania.....	815	837	921	813	810	804	774	751	<i>747</i>	774	833	931	883	883	80.2

WHIPS

Description of the industry.—The establishments classified in this industry are engaged primarily in the manufacture of whips and crops, whipstocks, whip handles, whiplashes, etc.

Omission of State statistics.—In order to avoid disclosing data reported by individual establishments, no State statistics are given for this industry.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1929

[Data for establishments with products under \$5,000 in value included for 1919 and prior years but not for 1921 and subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size.]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²	Horsepower
1929.....	8	57	\$47,714	\$80,303	\$224,219	\$143,916	82
1927.....	7	90	89,365	175,756	310,303	134,547	252
1925.....	9	103	73,004	131,969	308,039	176,070	158
1923.....	12	200	181,204	301,708	742,145	446,437	334
1921.....	14	292	239,931	427,634	1,022,118	594,484	(3)
1919.....	26	717	582,230	1,096,642	2,956,285	1,889,643	853
1914.....	40	1,163	559,445	1,340,943	3,161,910	1,820,967	1,071
1909.....	57	1,546	703,527	1,584,743	3,948,643	2,363,900	1,225
1904.....	58	1,554	603,203	1,253,118	3,147,328	1,894,210	938
1899.....	60	1,287	478,176	1,278,324	2,734,471	1,456,147	587
PER CENT OF INCREASE OR DECREASE (—)							
1927-1929.....	(3)	(3)	-46.6	-54.3	-27.7	7.0	-67.5
1925-1927.....	(3)	-12.6	22.4	33.2	-23.6	0.7	59.5
1923-1925.....	(3)	-48.5	-59.7	-56.3	-58.5	-60.0	-52.7
1921-1923.....	(3)	-31.5	-24.5	-29.4	-27.4	-25.9	-----
1919-1921.....	(3)	-59.3	-58.8	-60.0	-65.8	-68.5	-----
1919-1929.....	(3)	-92.1	-91.8	-92.7	-92.5	-92.4	-90.4
1909-1919.....	(3)	-53.6	-17.2	-30.8	-24.4	-20.1	-30.4
1899-1909.....	(3)	20.1	47.1	24.0	44.4	62.3	108.7

¹ For 1929, manufacturers' sales (shipments or deliveries); for earlier years, production. See GENERAL EXPLANATIONS—Value of Products.

² Includes values of miscellaneous products, normally belonging to other industries, made as secondary products by establishments engaged primarily in the manufacture of whips, as follows: 1929, \$1,440; 1927, \$120,703; 1925, \$11,769. Corresponding amounts for earlier years not available. Does not include following values of whips made as secondary products by establishments classified in other industries: 1923, \$103,875; 1927, \$75,663; 1925, \$230,954; 1923, \$87,374; 1921, \$157,218; 1919, \$219,693. Corresponding amounts for earlier years not available.

³ Value of products less cost of materials, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

⁴ Not called for on schedule.

⁵ Per cent not computed where base is less than 100.

TABLE 2.—GENERAL STATISTICS FOR THE UNITED STATES: 1929, 1927, AND 1919

[Data for establishments with products under \$5,000 in value are included for 1919 but not for subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

	Census year	Number of establishments	Salaried officers and employees ¹	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products ²	Value added by manufacture ³
					Total	Prime movers	Motors run by purchased energy			Total	Materials	Fuel and purchased energy		
United States.....	4 1929	8	7	57	82	-----	82	\$7,520	\$47,714	\$80,303	\$77,471	\$2,832	\$224,219	\$143,916
	5 1927	7	8	90	252	-----	252	9,821	89,365	175,756	169,262	6,494	310,303	134,547
	7 1919	26	169	717	853	255	598	431,518	582,230	1,096,642	1,063,512	33,130	2,986,285	1,889,643

¹ Not including proprietors and firm members, as follows: For 1929, 6; 1927, 6; 1919, 26. The total numbers of persons engaged—proprietors and firm members, salaried officers and employees, and wage earners—as reported for the industry, are as follows: For 1929, 70; 1927, 104; 1919, 912.

² The figures for 1929 refer to sales (shipments or deliveries) by manufacturers; those for earlier years represent production. See GENERAL EXPLANATIONS—Value of Products.

³ Value of products less cost of materials, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

⁴ Illinois, 1 establishment; Massachusetts, 1; New York, 5; Texas, 1. (See "Omission of State statistics," above.)

⁵ See footnote 2, Table 1.

⁶ Illinois, 1 establishment; Massachusetts, 2; New York, 3; Texas, 1.

⁷ Illinois, 2 establishments; Massachusetts, 15; Missouri, 1; New York, 6; Texas, 1; Virginia, 1.

CENSUS OF MANUFACTURES: 1929

TABLE 3.—PRIME MOVERS, MOTORS, AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY—NUMBER AND RATED CAPACITY OF PRIME MOVERS AND ELECTRIC MOTORS, 1929, 1927, 1925, 1919, AND 1914; QUANTITY OF ELECTRIC ENERGY PURCHASED, 1929

TYPE	1929		1927		1925		1919		1914		PER CENT DISTRIBUTION OF RATED HORSEPOWER CAPACITY	
	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	1929	1919
Prime movers and electric motors driven by purchased energy, aggregate.....	19	Horse-power 82	31	Horse-power 252	21	Horse-power 158	86	Horse-power 853	71	Horse-power 1,071	100.0	100.0
Prime movers, total.....							6	255	17	673		29.9
Steam engines.....							2	175	15	608		20.5
Internal-combustion engines.....							2	45	2	65		5.3
Water wheels and water turbines.....							2	35				4.1
Electric motors driven by purchased energy.....	19	82	31	252	21	158	80	598	54	398	100.0	70.1
Electric motors, total.....	19	82	31	252	21	158	81	599	56	405	100.0	100.0
Driven by purchased energy.....	19	82	31	252	21	158	80	598	54	398	100.0	99.8
Driven by energy generated in establishments reporting.....							1	1	2	7		0.2
Electric energy purchased ¹		Kilowatt-hours 35,433		(?)		(?)		(?)		(?)		

¹ This item covers the consumption of purchased electric energy for all purposes—power, heat, light, etc.

² Data incomplete.

³ Not called for on schedule.

TABLE 4.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES: 1929, 1925, 1919, 1914, AND 1909

[The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures]

STATE	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum	
		January	February	March	April	May	June	July	August	September	October	November	December		
United States:															
1929.....	57	57	54	56	58	61	64	62	53	51	<i>48</i>	54	61	75.0	
1925.....	103	114	115	113	120	103	109	100	96	92	<i>85</i>	90	94	69.2	
1919.....	717	713	719	698	682	695	701	737	730	726	719	735	743	92.6	
1914.....	1,163	1,199	1,203	1,205	1,213	1,196	1,138	1,154	1,138	1,141	<i>1,112</i>	1,122	1,135	91.7	
1909.....	1,546	1,511	1,525	1,573	1,540	1,568	1,547	1,553	1,536	1,569	1,595	1,534	1,489	93.4	

WINDOW SHADES AND FIXTURES

Description of the industry.—The principal products of this industry are window shades, window-shade rollers, and fixtures; and curtain poles, rods, and fixtures.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1929

[Data for establishments with products under \$5,000 in value included for 1919 and prior years but not for 1921 and subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, containers for products, fuel, and purchased electric energy	Value of products ¹	Value added by manufacture ²	Horsepower
1929	482	4,708	\$5,623,588	\$19,785,350	\$36,904,604	\$17,170,344	8,389
1927	386	4,733	5,855,781	21,065,474	37,021,937	16,016,463	8,079
1925	386	5,176	6,207,820	25,029,474	41,667,681	16,628,207	11,161
1923	305	5,957	6,825,750	28,521,217	47,640,082	18,118,885	11,450
1921	242	3,731	4,421,041	17,387,660	29,647,761	11,760,101	(4)
1919	287	4,411	3,669,286	18,249,540	26,190,649	10,041,109	8,040
1914	286	4,077	2,130,585	11,888,569	17,444,120	5,555,551	6,594
1909	219	3,930	1,917,692	12,652,607	18,570,032	5,018,325	5,711
1904	144	2,624	1,086,232	5,946,478	8,930,630	2,084,152	2,689
1899	96	1,801	752,144	5,875,126	8,071,854	2,406,728	1,927
PER CENT OF INCREASE OR DECREASE (—)							
1927-1929	24.9	-0.5	-4.0	-6.1	-0.3	7.3	-3.3
1925-1927	14.9	-8.6	-5.7	-15.8	-11.0	-3.7	-22.2
1923-1925	10.2	-13.1	-9.1	-15.2	-12.6	-8.2	-2.6
1921-1923	26.0	57.6	54.4	65.0	60.7	54.1	-----
1919-1921	-15.7	-14.3	20.5	-2.0	1.6	7.5	-----
1919-1929	67.9	6.7	53.3	8.4	26.6	57.0	-6.2
1909-1919	31.1	12.2	91.3	44.2	57.2	84.9	56.6
1899-1909	(5)	118.2	155.0	126.9	130.1	137.0	196.4

¹ For 1929, manufacturers' sales (shipments or deliveries); for earlier years, production. See GENERAL EXPLANATIONS—Value of Products.

² Includes value of miscellaneous products, normally belonging to other industries, made as secondary products by establishments engaged primarily in the manufacture of window shades, fixtures, etc., as follows: 1929, \$1,551,019; 1927, \$4,044,801; 1925, \$5,702,353; corresponding amounts for earlier years not available. Does not include following values of window shades, fixtures, etc., made as secondary products by establishments engaged primarily in other lines of manufacture: 1929, \$3,037,843; 1927, \$3,521,305; 1925, \$3,147,793; 1923, \$2,251,387; 1921, \$952,161; 1919, \$1,263,644; corresponding amounts for earlier years not available.

³ Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

⁴ Not called for on schedule.

⁵ Per cent not computed where base is less than 100.

CENSUS OF MANUFACTURES: 1929

TABLE 2.—GENERAL STATISTICS, BY STATES: 1929, 1927, AND 1919

(This table presents statistics separately for each State for which figures can be given without disclosing data for individual establishments, and for the remaining States in groups. Data for establishments with products under \$5,000 in value are included for 1919 but not for subsequent years. See GENERAL EXPLANATIONS—Establishments Covered—Size)

STATE	Census year	Number of establishments	Salaried officers and employees ¹	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products ²	Value added by manufacture ³
					Total	Primomovers	Motors run by purchased energy			Total	Materials and containers	Fuel and purchased energy		
United States.....	1929	482	978	4,708	8,389	4,002	4,327	\$2,404,744	\$5,623,588	\$19,785,350	\$19,496,782	\$288,568	\$36,964,694	\$17,179,344
	1927	386	984	4,733	8,670	5,392	3,287	2,380,879	5,855,781	21,065,474	20,711,586	353,888	37,081,837	16,016,463
	1919	287	825	4,411	8,946	6,429	2,517	1,773,867	3,669,266	18,249,540	17,892,052	357,488	29,190,649	10,941,109
Individual States:														
California.....	1929	60	49	207	143	-----	143	87,374	269,768	984,515	978,917	5,598	1,768,447	813,932
	1927	53	63	245	256	-----	256	137,767	329,013	1,043,121	1,035,773	7,348	2,178,526	1,185,405
	1919	35	45	96	150	-----	150	68,393	111,285	616,846	614,329	2,517	1,007,741	456,895
Connecticut.....	1929	4	2	21	82	30	52	12,692	17,400	45,605	45,483	122	94,045	48,440
	1927	5	5	16	3	-----	3	16,581	15,115	71,062	71,200	402	120,981	49,519
	1919	5	7	47	88	45	43	9,874	33,013	59,772	57,793	2,014	144,963	86,191
Illinois.....	1929	88	116	459	304	-----	304	350,018	689,084	1,748,667	1,723,808	24,859	3,888,254	2,139,887
	1927	86	122	413	329	-----	329	356,696	568,495	2,177,579	2,154,734	22,845	4,230,105	2,062,628
	1919	59	224	1,344	3,079	2,020	1,059	597,575	1,092,383	7,908,955	7,831,681	137,274	11,261,202	3,292,337
Indiana.....	1929	12	31	144	111	-----	111	41,566	132,839	421,279	415,284	5,995	774,209	353,180
	1927	6	30	84	35	-----	35	36,305	88,159	326,116	323,354	2,762	642,489	316,373
	1919	3	3	37	16	14	2	2,510	14,417	145,279	144,033	1,246	188,758	43,479
Maryland.....	1929	10	33	86	22	-----	22	85,575	167,757	823,752	818,800	4,862	1,304,173	480,421
	1927	10	53	91	16	-----	16	127,731	80,625	893,730	891,843	1,887	1,264,973	371,243
	1919	4	35	33	5	-----	5	50,826	26,885	495,230	494,417	813	624,070	146,840
Massachusetts.....	1929	24	49	151	143	-----	143	118,637	168,403	998,940	992,474	6,466	1,634,822	635,882
	1927	18	61	200	190	105	85	144,934	217,329	1,016,784	1,011,043	5,691	1,641,820	625,095
	1919	11	13	68	166	180	36	23,343	59,650	352,163	349,994	2,109	542,033	189,870
Michigan.....	1929	20	171	827	2,126	1,932	194	380,491	941,713	2,045,948	2,002,223	43,695	5,237,744	3,191,826
	1927	13	148	870	2,677	2,125	552	298,131	1,023,379	2,387,490	2,356,196	31,294	4,906,364	2,518,874
	1919	5	98	766	1,057	690	367	282,050	632,798	865,262	841,894	23,368	2,863,860	1,998,668
Minnesota.....	1929	5	8	17	3	-----	3	10,983	16,906	59,347	58,898	449	121,082	61,735
	1927	5	4	27	105	-----	105	4,176	31,387	85,708	82,489	3,219	222,593	136,885
	1919	6	8	31	13	-----	13	10,564	32,207	93,188	92,622	666	174,982	81,794
Missouri.....	1929	13	37	71	23	-----	23	88,232	92,027	570,804	568,194	2,700	971,845	400,951
	1927	9	36	52	18	-----	18	81,014	73,871	535,955	533,059	2,296	957,345	421,390
New Jersey.....	1929	22	58	189	147	-----	147	165,825	280,709	1,352,257	1,339,032	13,225	2,090,277	738,020
	1927	21	82	424	687	557	130	214,446	568,472	2,226,528	2,141,352	85,176	3,874,533	1,648,005
	1919	19	49	284	556	500	66	173,749	308,057	1,463,595	1,421,563	42,032	2,501,483	1,037,888
New York.....	1929	115	212	1,325	3,450	2,000	1,450	509,920	1,626,023	5,462,791	5,344,602	118,189	10,229,721	4,766,930
	1927	81	174	1,238	2,961	2,150	811	411,169	1,698,617	5,831,051	5,693,506	137,545	9,523,208	3,692,157
	1919	75	143	1,029	2,795	2,430	365	262,673	821,478	3,260,811	3,159,907	106,904	5,097,194	1,830,883
Ohio.....	1929	33	39	231	352	-----	352	82,302	253,536	886,232	874,229	12,003	1,485,465	599,233
	1927	15	32	225	363	-----	363	69,971	264,323	774,975	765,278	9,697	1,401,501	626,626
Oregon.....	1929	6	11	29	94	-----	94	21,768	33,365	185,224	183,763	1,461	305,168	119,944
Pennsylvania.....	1929	19	55	274	139	-----	139	183,218	308,785	1,368,645	1,352,414	16,231	2,192,792	824,147
	1927	15	30	141	87	50	37	76,946	160,667	767,998	762,251	7,747	1,223,672	453,674
	1919	25	47	100	22	-----	22	64,248	101,329	690,008	688,018	1,990	1,143,867	453,859
Texas.....	1929	11	24	74	29	-----	29	48,921	73,291	803,399	801,275	2,124	1,114,122	310,723
	1927	8	20	48	17	-----	17	52,003	57,892	554,593	553,182	1,411	773,768	219,115
Washington.....	1929	8	6	31	216	-----	216	5,438	39,064	98,593	97,604	689	188,024	89,431
	1927	6	6	25	2	-----	2	7,360	34,959	100,388	100,018	370	181,787	81,399
	1919	3	1	8	4	-----	4	240	13,369	88,729	88,661	78	109,770	21,041
Wisconsin.....	1929	10	28	94	152	-----	152	77,600	106,610	419,404	410,686	8,718	956,859	537,455
	1927	12	62	146	209	-----	209	158,211	142,168	526,400	513,043	13,357	1,030,744	564,344
	1919	5	41	130	215	100	115	85,132	80,265	295,813	287,406	8,407	581,077	285,264
Groups of States:														
Me., 1 est.; N. H., 1; R. I., 2; Vt., 2.....	1929	6	28	269	331	100	231	84,359	275,748	779,332	769,080	10,252	1,355,436	576,104
Other States (Colo., 2; D. C., 2; Ga., 2; Fla., 1; Ky., 1; Nebr., 1; Okla., 2; Tenn., 3; Utah., 1; Va., 1).....	1929	16	21	209	522	-----	522	49,835	190,580	730,556	719,926	10,630	1,222,009	491,453
States not shown separately	1927	23	66	488	724	405	310	187,438	501,310	1,743,446	1,722,605	20,841	2,007,570	1,164,133
	1919	32	111	438	782	560	282	142,650	342,690	1,847,889	1,819,879	28,010	2,871,559	1,023,670

¹ Not including proprietors and firm members, as follows: For 1929, 295; 1927, 358; 1919, 258. The total numbers of persons engaged—proprietors and firm members, salaried officers and employees, and wage earners—as reported for the industry, are as follows: For 1929, 5,981; 1927, 6,075; 1919, 5,494.

² The figures for 1929 refer to sales (shipments or deliveries) by manufacturers; those for earlier years represent production. See GENERAL EXPLANATIONS—Value of Products.

³ Value of products less cost of materials, containers for products, fuel, and purchased electric energy. See GENERAL EXPLANATIONS—Value Added by Manufacture.

⁴ See footnote 2, Table 1.

⁵ Data for purchased power other than electric (power transmitted into the plant by belt or shaft) are included in the State items for 1919 but not in the United States totals.

⁶ Colorado, 2 establishments; Delaware, 1; District of Columbia, 2; Florida, 1; Georgia, 2; Kansas, 1; Kentucky, 2; Maine, 1; New Hampshire, 1; Oklahoma, 2; Oregon, 2; Rhode Island, 2; Tennessee, 1; Vermont, 3.

⁷ District of Columbia, 2 establishments; Georgia, 1; Kentucky, 1; Missouri, 3; Nebraska, 1; North Carolina, 2; Ohio, 12; Oregon, 2; Rhode Island, 2; Tennessee, 2; Vermont, 3; Virginia, 1.

WINDOW SHADES AND FIXTURES

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TABLE 3.—PRIME MOVERS, MOTORS, GENERATORS, AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY—NUMBER AND RATED CAPACITY OF PRIME MOVERS AND ELECTRIC MOTORS, 1929, 1927, 1925, 1919, AND 1914, AND OF GENERATORS, 1929, 1927, AND 1925; QUANTITY OF ELECTRIC ENERGY PURCHASED, 1929

TYPE	1929		1927		1925		1919		1914		PER CENT DISTRIBUTION OF RATED HORSE-POWER CAPACITY	
	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	1929	1919
		Horse-power		Horse-power		Horse-power		Horse-power		Horse-power		
Prime movers and electric motors driven by purchased energy, aggregate	2,009	8,389	1,612	8,679	1,278	11,151	724	8,946	444	6,594	100.0	100.0
Prime movers, total	10	4,062	18	5,392	34	8,257	32	6,429	42	5,479	48.4	71.9
Steam, total	9	3,962	15	5,192	28	8,051	22	6,015	34	5,314	47.2	67.2
Engines	6	1,395	13	2,452	23	2,761	19	2,490	(1)	(1)	16.6	27.5
Turbines	3	2,567	2	2,740	5	5,290	3	3,525	(1)	(1)	30.6	39.4
Internal-combustion engines							6	114	7	80		1.3
Water wheels and water turbines	1	100	3	200	6	206	4	300	1	85	1.2	3.4
Electric motors driven by purchased energy	1,999	4,327	1,594	3,287	1,244	2,894	692	2,517	402	1,115	51.6	28.1
Electric motors, total	2,941	10,018	2,390	9,152	2,148	11,064	1,073	7,785	680	5,949	100.0	100.0
Driven by purchased energy	1,009	4,327	1,594	3,287	1,244	2,894	692	2,517	402	1,115	43.2	32.3
Driven by energy generated in establishments reporting	942	5,691	796	5,865	904	8,170	381	5,268	278	4,834	56.8	67.7
Electric generators	13	Kilo-watts 2,839 Kilowatt-hours	13	Kilo-watts 3,367	18	Kilo-watts 5,850	(?)	(?)	(?)	(?)		
Electric energy purchased ¹		3,160,701		(?)		(?)		(?)		(?)		

¹ Not called for separately on schedule.
² Not called for on schedule.
³ This item covers the consumption of purchased electric energy for all purposes—power, heat, light, etc.
⁴ Data incomplete.

TABLE 4.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1929, 1925, 1919, 1914, AND 1909, AND BY STATES, 1929

[This table presents statistics for only those States for which figures can be given without disclosing data for individual establishments. The sum of the State items in any column is not, therefore, equal to the United States total at the head of the column. The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures]

STATE	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum
		January	February	March	April	May	June	July	August	September	October	November	December	
United States:														
1929	4,708	4,588	4,588	4,735	4,752	4,880	4,837	4,780	4,717	4,814	4,810	4,580	4,489	91.1
1925	5,176	4,982	<i>4,972</i>	5,143	5,142	5,198	5,098	5,020	5,060	5,241	5,497	5,398	5,360	90.4
1919	4,411	3,817	3,789	3,802	3,898	4,135	4,394	4,488	4,684	4,732	4,959	5,097	5,137	73.8
1914	4,077	4,086	4,070	4,134	4,230	4,239	4,149	3,961	3,970	4,000	4,085	4,041	4,019	92.2
1909	3,930	4,073	4,033	4,055	3,958	3,933	3,915	3,625	3,803	3,813	3,992	3,980	3,989	89.0
California	207	213	212	213	206	203	<i>189</i>	197	211	206	219	230	202	85.9
Connecticut	21	21	21	21	21	21	21	21	21	21	21	21	21	
Illinois	459	424	436	456	481	523	472	431	435	456	509	436	475	79.3
Indiana	144	111	108	133	155	168	156	166	174	202	136	<i>102</i>	118	50.5
Maryland	80	<i>80</i>	80	82	89	92	90	85	81	85	90	96	85	83.3
Massachusetts	151	<i>137</i>	142	143	150	161	172	175	148	145	152	146	140	78.3
Michigan	827	900	927	903	795	801	786	800	800	824	825	819	741	79.9
Minnesota	17	<i>11</i>	<i>11</i>	14	19	23	21	19	21	22	20	13	12	47.8
Missouri	71	63	63	63	73	86	74	70	67	80	81	74	<i>62</i>	72.1
New Jersey	189	<i>171</i>	172	173	196	203	203	205	196	178	182	191	192	83.4
New York	1,325	1,322	1,293	1,349	1,347	1,353	1,371	1,343	1,333	1,341	1,337	1,294	1,266	90.3
Ohio	231	<i>187</i>	217	248	247	266	257	244	257	228	233	199	193	70.3
Oregon	29	30	32	28	29	29	29	28	<i>26</i>	30	29	28	28	81.3
Pennsylvania	274	282	283	273	269	261	262	268	278	293	297	244	278	82.2
Texas	74	71	72	72	73	73	75	76	81	82	79	71	67	81.7
Washington	31	<i>29</i>	<i>29</i>	30	33	35	35	32	32	<i>29</i>	<i>29</i>	30	30	82.9
Wisconsin	94	68	70	68	104	92	139	142	81	85	85	93	98	47.9

POWER LAUNDRIES AND DYEING AND CLEANING ESTABLISHMENTS

This report presents statistics for power laundries and for dyeing and cleaning establishments. These two industries were canvassed in connection with the biennial censuses of manufactures for 1929, 1927, and 1925 and the quinquennial census for 1919, but were not canvassed at the biennial censuses for 1923 and 1921; and power laundries, but not dyeing and cleaning establishments, were also canvassed at the quinquennial censuses for 1914 and 1909. The lines of activity in which these two classes of establishments are engaged are not, however, treated as manufacturing industries for census purposes, and therefore the statistics appearing in this report are not included in the census totals for all manufacturing industries.

Area and period covered.—The canvass covered the 48 States and the District of Columbia. The returns relate to the calendar year 1929, or to the business year which corresponded most nearly to that calendar year, and cover a year's operations, except for establishments which began or discontinued business within the year.

Persons engaged.—The distinction between salaried officers and employees, on the one hand, and wage earners, on the other, depends primarily on the character of work done. The first group includes, in general, supervisory and office employees, and the second group, manual workers.

In the salaried group are included principal officers of corporations; managers, superintendents, and other responsible administrative employees; foremen and overseers who devote all or the greater part of their time to supervisory duties; and clerks, stenographers, bookkeepers, and other clerical employees on salary. Wage earners are defined as skilled and unskilled workers of all classes, including pieceworkers employed at the plant, and foremen and overseers in minor positions who perform work similar to that done by the employees under their supervision.

In the case of employees other than wage earners, the number reported for December 14, or for the nearest representative day, is treated as equivalent to the average for the year, since, as a rule, there is little variation from month to month in the number of employees of this class. For wage earners, the number shown by the pay roll for the week which included the 15th day of each month, or for some other representative week, is reported, and the average for the year is calculated by dividing the sum of the numbers reported for the several months by 12.

Prevailing hours of labor.—The average number of wage earners for each laundry or dyeing and cleaning establishment was assigned as a whole to the hours-of-labor group which coincided with the hours of labor prevailing in that establishment, even though a few employees may have worked a larger or a smaller number of hours.

Salaries and wages.—These items represent, respectively, the total compensation of salaried officers and employees and the total compensation of wage earners (including those employed on a piece-price basis).

Cost of supplies.—The item "Cost of Supplies" relates to supplies actually used during the year. It covers fuel, purchased electric energy, and supplies such as soap, soda, starch, chemicals, solvents, dye-stuffs, wrapping paper, paper bags, and boxes.

Profits and production costs.—Profits can not be calculated from census statistics for the reason that these statistics do not show total operating costs, no data for depreciation, interest, insurance, rent, taxes, and other miscellaneous expense items having been collected.

Horsepower.—Under this head are shown the number and the rated horsepower capacity of prime movers—engines, turbines, and water wheels—and of electric motors driven by purchased energy. The power of motors driven by energy generated in the establishments reporting is not included in the total, since this power duplicates that of the prime movers which generate the energy. The amount of power in actual use is, of course, considerably less than the rated horsepower capacity of engines, water wheels, etc.

Limitation of statistics to establishments reporting receipts of \$5,000 or more.—The canvasses for 1929, 1927, and 1925 were restricted to laundries and dyeing and cleaning establishments reporting receipts of \$5,000 or more for the year, whereas at the laundry censuses for 1919, 1914, and 1909 and at the census of dyeing and cleaning establishments for 1919, all laundries and dyeing and cleaning establishments having receipts of \$500 or more were canvassed. This change in the minimum limit for amount received had a material effect on the comparableness of the figures for *number* of laundries and *number* of dyeing and cleaning establishments, but the effect on the comparableness of the figures for the other items was negligible. (See "Comparison with earlier years," p. 1393.)

POWER LAUNDRIES

Description of the industry.—The canvasses of power laundries for 1929, 1927, and 1925 covered all commercial laundries reporting receipts of \$5,000 or more, and those for 1919, 1914, and 1909 covered such laundries reporting receipts of \$500 or more. The canvasses did not, however, cover laundries operated by hotels and by eleemosynary and Government institutions, nor so-called "hand laundries," although many of these laundries use some power-driven equipment.

Comparison with earlier years.—In order to present statistics for 1919 which are strictly comparable with

those for later years, the United States totals for 1919 have been adjusted, so far as possible, by deducting the data for laundries reporting receipts of less than \$5,000. The State figures can not, however, be thus adjusted. The adjusted United States totals for 1919, comparable with those for later years, are given in Tables 1 and 2. The unadjusted figures for 1919, comparable with those for earlier years, are also given. (See "Limitation of statistics to establishments reporting receipts of \$5,000 or more, p. 1392.")

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1909 TO 1929

YEAR OR PERIOD ¹	Number of laundries	Wage earners (average for the year)	Wages	Cost of supplies, fuel, and purchased electric energy ²	Amount received for work done ³	Horsepower
1929.....	6,776	233,187	\$228,860,727	\$80,264,799	\$541,158,197	409,296
1927.....	6,013	203,216	201,132,198	68,282,833	454,033,518	335,938
1925.....	4,859	169,200	162,460,259	55,407,109	362,294,749	263,598
1919 ⁴	4,881	130,489	91,926,000	52,842,000	233,815,827	189,355
1914 ⁴	5,675	131,879	92,898,837	53,502,177	236,382,369	191,148
1919.....	6,097	130,641	59,471,244	26,919,200	142,503,253	171,472
1909.....	5,186	109,484	44,826,678	17,696,360	104,680,086	121,027
PER CENT OF INCREASE OR DECREASE (—)						
1927-1929.....	12.7	14.7	13.8	17.5	19.2	19.2
1925-1927.....	23.7	20.1	23.8	23.2	25.3	27.4
1919-1925.....	-0.5	29.7	76.7	4.9	54.9	39.2
1914-1919.....	-6.0	.9	56.2	98.8	65.9	11.6
1909-1914.....	17.6	19.3	32.7	52.1	36.1	41.7
1919-1929.....	38.8	78.7	149.0	51.9	131.4	111.4
1909-1919.....	9.5	20.5	107.2	202.8	125.8	57.9

¹ See first paragraph of text, p. 1392.

² See "Profits and production costs," p. 1392.

³ Exclusive of data for laundries reporting receipts of less than \$5,000; comparable with figures for later years. (See "Comparison with earlier years," above.)

⁴ Includes data for laundries reporting receipts of less than \$5,000; comparable with figures for earlier years. (See "Comparison with earlier years," above.)

TABLE 2.—GENERAL STATISTICS, BY STATES: 1929, 1927, AND 1919

STATE	Census year	Number of laundries	Salaried officers and employees ¹	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF SUPPLIES, FUEL, AND PURCHASED ELECTRIC ENERGY			Amount received for work done
					Total	Prime movers	Motors run by purchased energy			Total	Supplies	Fuel and purchased energy	
United States.....	1929	6,776	21,964	233,187	400,296	249,708	160,588	\$49,833,332	\$228,860,727	\$80,264,799	\$66,075,690	\$23,289,109	\$541,158,197
	1927	6,013	17,828	203,216	336,938	216,065	119,873	35,780,890	201,132,198	68,282,833	47,003,383	21,279,450	454,033,518
	1919	4,881	(b)	130,489	189,355	(c)	(d)	(e)	91,926,000	52,842,000	(f)	(g)	233,815,827
	1919	5,675	15,176	131,879	191,148	147,261	43,887	22,698,185	92,898,837	53,502,177	39,694,801	13,807,376	236,382,369
Alabama.....	1929	56	248	2,657	3,848	2,537	1,311	516,363	1,748,558	759,759	535,263	174,496	4,529,146
	1927	49	108	2,351	2,232	1,188	1,044	345,216	1,591,567	536,059	394,626	141,433	3,562,129
	1919	37	191	1,462	1,675	1,288	387	355,277	771,293	468,521	341,777	121,744	2,196,118
Arizona.....	1929	28	73	909	1,408	741	687	184,339	887,513	303,118	199,630	103,488	1,974,248
	1927	22	46	674	1,087	689	378	151,463	617,922	221,808	143,666	78,142	1,347,636
	1919	21	46	639	685	502	183	72,838	430,605	253,740	170,794	32,946	987,438
Arkansas.....	1929	51	77	1,219	1,968	1,384	584	138,424	931,307	372,981	250,522	122,459	2,139,803
	1927	46	77	1,155	2,036	1,489	547	139,346	814,498	337,207	214,929	122,278	1,910,193
	1919	49	62	937	1,658	762	296	87,446	549,125	339,619	128,578	101,046	1,393,024
California.....	1929	630	1,785	21,457	32,308	6,197	26,111	3,843,398	25,076,455	5,865,595	4,394,887	1,470,708	53,453,350
	1927	484	1,480	18,722	26,422	7,475	18,947	2,803,004	22,514,747	5,028,055	3,734,301	1,293,754	45,699,158
	1919	586	1,326	11,264	15,837	8,914	6,623	2,120,534	9,301,912	4,582,096	3,872,040	1,210,056	22,012,606
Colorado.....	1929	92	255	2,875	4,226	2,914	1,812	525,061	2,300,579	780,050	561,768	218,282	5,451,355
	1927	86	229	2,614	3,936	2,648	1,288	375,959	2,138,060	733,615	499,798	233,817	4,884,121
	1919	92	298	2,086	2,925	2,444	481	442,133	1,437,628	688,337	510,599	177,938	3,759,849
Connecticut.....	1929	151	346	3,385	7,674	6,364	1,310	943,447	3,654,352	1,202,038	852,343	409,695	8,780,099
	1927	138	281	3,013	6,284	5,375	911	645,990	3,141,038	1,077,052	690,834	388,218	7,391,494
	1919	128	179	2,024	3,646	3,261	395	285,874	1,531,432	799,699	548,999	250,700	3,560,276
Delaware.....	1929	8	52	309	412	244	168	78,279	293,485	84,654	51,631	35,023	724,671
	1927	7	33	366	388	255	132	64,189	274,683	89,816	51,249	29,567	638,114
	1919	6	6	284	334	320	14	13,935	220,984	95,822	70,004	25,818	444,095

See footnotes at end of table.

CENSUS OF MANUFACTURES: 1929

TABLE 2.—GENERAL STATISTICS, BY STATES: 1929, 1927, AND 1919—Continued

STATE	Census year	Number of laundries	Salaried officers and employes ¹	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF SUPPLIES, FUEL, AND PURCHASED ELECTRIC ENERGY			Amount received for work done
					Total	Prime movers	Motors run by purchased energy			Total	Supplies	Fuel and purchased energy	
District of Columbia	1929	27	347	2,923	3,124	2,598	526	\$706,754	\$2,442,988	\$961,706	\$649,122	\$212,584	\$9,128,6
	1927	20	226	2,682	3,330	2,673	657	448,078	2,207,179	672,422	503,884	168,538	5,040,8
	1919	21	140	1,655	1,633	1,500	43	314,468	1,049,580	481,036	367,520	113,607	2,559,2
Florida	1929	93	279	3,051	5,116	2,567	2,549	564,533	2,395,762	1,145,300	801,228	344,162	0,372,40
	1927	86	284	3,252	5,153	2,206	2,947	673,393	2,812,210	1,184,197	782,523	401,074	0,500,0
	1919	35	140	983	1,437	1,290	147	192,147	488,157	365,461	262,252	103,269	1,480,0
Georgia	1929	65	328	3,880	5,093	3,135	1,958	582,866	2,558,357	995,487	733,820	201,667	0,301,915
	1927	60	284	2,944	2,549	1,074	1,475	459,985	1,855,580	759,073	547,878	207,695	4,561,431
	1919	52	288	2,194	2,566	1,899	667	426,179	1,205,256	872,896	689,745	183,150	3,216,832
Idaho	1929	45	68	735	1,248	384	864	142,810	678,673	272,686	173,057	90,629	1,798,542
	1927	38	51	616	1,103	550	553	100,445	545,509	237,378	151,888	85,495	1,377,245
	1919	40	43	571	756	296	460	59,420	487,635	322,581	216,552	100,029	1,179,846
Illinois	1929	490	2,201	21,020	39,572	27,994	11,578	6,051,204	25,071,200	8,452,498	5,820,385	2,632,113	57,988,963
	1927	446	1,753	17,806	33,885	24,111	9,774	3,840,149	22,044,940	7,605,516	5,318,518	2,280,998	49,061,509
	1919	470	1,205	10,579	14,833	11,668	3,165	2,087,153	7,895,989	4,942,918	3,804,746	1,078,172	20,060,032
Indiana	1929	156	535	5,275	9,297	5,260	4,037	1,110,508	4,758,548	1,822,976	1,295,795	526,441	11,410,680
	1927	135	363	4,627	7,334	4,106	3,228	638,250	4,055,978	1,656,530	1,178,999	477,531	9,319,279
	1919	158	607	3,568	5,290	3,731	1,529	536,857	2,107,064	1,556,505	1,215,946	340,559	5,588,748
Iowa	1929	91	225	2,282	4,672	3,327	1,345	518,574	2,011,772	853,791	581,818	271,043	5,217,685
	1927	98	196	2,146	4,117	2,848	1,269	375,311	1,842,204	825,001	523,843	301,158	4,634,338
	1919	129	255	2,074	3,168	2,411	757	357,951	1,372,508	901,410	603,582	297,828	3,904,668
Kansas	1929	117	171	2,449	4,242	2,648	1,594	344,434	2,060,514	923,073	656,712	267,261	6,043,017
	1927	108	148	2,163	3,319	2,043	1,276	241,470	1,779,445	701,653	504,359	256,694	4,092,537
	1919	136	146	1,959	2,785	1,751	1,034	191,778	1,280,845	912,050	637,814	274,245	3,358,336
Kentucky	1929	110	315	3,450	5,660	3,918	1,772	641,908	2,637,103	948,657	681,748	260,909	6,293,136
	1927	103	294	3,170	4,885	3,520	1,365	520,339	2,395,037	975,082	704,255	270,827	5,585,767
	1919	63	244	2,294	5,752	2,756	3,006	236,126	1,183,377	789,000	613,724	175,276	2,905,546
Louisiana	1929	35	252	2,843	3,242	2,637	605	437,145	2,030,097	797,351	502,287	235,064	5,548,656
	1927	20	267	2,473	2,729	2,329	400	476,897	1,778,807	665,679	444,705	220,974	4,494,832
	1919	24	215	1,605	1,778	1,419	359	329,437	788,575	485,213	365,009	119,304	2,349,774
Maine	1929	73	94	1,068	1,961	1,178	753	121,816	597,852	326,576	200,637	125,939	2,163,323
	1927	67	63	969	1,619	934	685	82,462	548,112	309,565	178,545	131,020	1,928,548
	1919	81	70	693	1,577	1,106	471	50,482	607,083	412,828	284,565	128,263	1,514,854
Maryland	1929	61	373	3,017	4,367	2,437	1,920	658,277	2,335,011	907,533	630,683	276,850	6,028,664
	1927	56	335	2,758	3,973	2,284	1,659	528,007	2,266,310	949,519	695,078	254,441	5,637,508
	1919	46	230	1,619	2,341	2,077	264	286,507	968,450	690,733	562,592	137,841	2,640,686
Massachusetts	1929	458	1,068	10,736	21,451	15,148	6,303	2,271,047	11,155,442	3,760,850	2,529,412	1,231,447	25,015,551
	1927	425	870	9,742	18,561	13,686	4,830	1,689,581	10,263,299	3,445,258	2,249,484	1,195,774	22,514,264
	1919	340	609	6,821	11,562	9,110	2,392	1,166,026	5,285,153	2,484,350	1,706,535	777,815	10,084,270
Michigan	1929	225	777	8,356	13,697	9,828	4,569	1,782,142	8,933,789	3,246,027	2,341,065	904,362	21,625,393
	1927	188	620	6,903	11,427	8,017	3,410	1,128,530	7,173,270	2,500,584	1,774,519	726,065	15,023,193
	1919	197	615	4,913	7,151	4,728	2,423	935,955	3,780,179	2,102,476	1,651,581	640,895	9,416,370
Minnesota	1929	132	482	3,718	8,134	6,253	1,881	922,434	3,618,952	1,404,094	942,071	462,023	9,116,842
	1927	136	389	3,666	7,256	5,473	1,783	590,974	3,240,715	1,292,141	830,200	452,932	7,973,150
	1919	156	385	3,277	4,766	3,665	1,101	534,725	2,415,506	1,437,708	1,038,194	399,514	6,087,988
Mississippi	1929	35	112	1,367	1,840	910	930	215,672	903,005	350,358	228,808	121,550	2,271,605
	1927	25	80	947	1,092	565	437	124,159	684,445	234,118	164,408	69,710	1,579,145
	1919	23	58	624	1,816	450	1,360	77,848	319,905	286,102	225,151	100,951	646,670
Missouri	1929	187	792	8,632	14,276	11,498	2,778	1,842,945	7,392,713	2,633,302	1,002,645	730,657	17,222,776
	1927	153	610	7,662	12,570	10,064	2,506	1,237,419	6,581,508	2,308,750	1,579,374	729,376	16,002,417
	1919	165	730	5,997	8,243	7,572	671	934,988	3,009,453	2,544,213	1,972,108	672,105	9,438,893
Montana	1929	33	82	758	1,292	592	700	268,825	810,303	280,813	174,007	106,716	1,840,455
	1927	32	61	744	1,266	620	646	133,492	764,588	274,395	169,840	104,555	1,739,134
	1919	49	87	971	1,463	1,089	374	163,891	839,771	473,189	343,189	130,000	1,894,356
Nebraska	1929	71	154	1,891	3,293	1,677	1,586	385,698	1,541,255	695,826	488,659	207,167	4,090,982
	1927	62	152	1,629	2,873	1,698	1,175	318,535	1,312,851	665,407	470,259	195,208	3,439,279
	1919	69	166	1,471	1,942	1,411	531	324,634	970,217	646,759	461,617	185,142	2,823,234
Nevada	1929	16	17	240	765	353	412	38,872	355,199	113,301	71,021	42,280	761,167
	1927	13	14	213	339	202	137	28,366	283,392	78,838	41,508	37,330	548,593
	1919	13	9	148	223	177	46	15,880	142,285	55,588	49,541	36,047	340,036
New Hampshire	1929	74	43	829	1,993	1,267	636	86,956	703,123	305,548	174,260	131,288	1,734,585
	1927	63	51	742	1,377	948	429	77,502	632,592	263,344	147,902	115,442	1,471,267
	1919	61	21	616	1,302	1,020	282	21,793	456,877	254,886	167,305	87,081	968,850
New Jersey	1929	323	1,196	11,920	21,735	14,134	7,601	3,083,137	12,975,888	4,405,202	3,128,496	1,270,706	29,561,876
	1927	304	820	10,267	19,151	12,647	6,504	2,111,289	10,759,751	3,992,581	2,824,701	1,167,880	24,642,862
	1919	131	370	3,581	6,257	5,683	574	669,273	2,863,462	1,007,622	855,411	376,621	7,061,621
New Mexico	1929	22	50	569	647	150	497	83,544	443,752	178,471	127,078	51,393	1,174,674
	1927	17	34	435	521	115	406	63,675	332,286	130,540	84,429	55,111	866,364
	1919	16	19	292	345	214	131	20,110	171,606	105,609	68,473	37,136	432,279
New York	1929	776	2,999	31,391	60,068	40,960	10,118	7,881,414	35,173,329	13,376,643	9,560,217	3,816,426	84,816,552
	1927	694	2,528	26,740	49,998	33,976	10,922	5,270,984	30,466,909	9,119,987	5,753,998	3,336,049	68,096,800
	1919	553	1,264	11,998	21,112	16,709	9,343	2,271,163	9,600,451	5,022,368	3,277,503	1,414,885	24,627,441
North Carolina	1929	131	332	4,050	5,423	2,443	2,060	664,200	2,656,587	1,308,413	929,169	370,244	6,870,238
	1927	109	276	3,641	3,								

POWER LAUNDRIES

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TABLE 2.—GENERAL STATISTICS, BY STATES: 1929, 1927, AND 1919—Continued

STATE	Census year	Number of laundries	Salaried officers and employ-ees ¹	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF SUPPLIES, FUEL, AND PURCHASED ELECTRIC ENERGY			Amount received for work done
					Total	Prime movers	Motors run by purchased energy			Total	Supplies	Fuel and purchased energy	
North Dakota	1920	20	35	374	734	263	471	\$66,234	\$339,920	\$177,163	\$114,800	\$62,363	\$902,045
	1927	17	31	346	606	237	369	61,558	314,427	163,864	110,247	53,617	844,553
	1919	29	35	426	506	173	333	37,592	277,267	255,235	175,659	79,270	844,433
Ohio	1929	298	1,188	11,184	19,953	12,647	7,396	2,682,210	10,851,932	3,641,147	2,662,198	978,949	26,256,552
	1927	270	896	9,532	10,853	11,120	5,733	1,936,214	9,612,221	3,320,080	2,362,493	957,587	22,036,038
	1919	277	1,003	7,040	12,107	8,861	3,246	1,418,377	4,703,668	2,874,537	2,181,743	928,794	12,528,344
Oklahoma	1929	110	255	3,652	4,901	2,198	2,703	547,377	3,147,253	1,281,853	934,027	347,826	7,542,166
	1927	99	214	2,961	4,478	2,224	2,254	420,529	2,710,088	1,008,146	677,616	330,530	6,197,705
	1919	99	244	1,094	2,191	1,374	817	376,873	1,330,751	875,062	628,705	240,387	3,561,059
Oregon	1929	77	190	2,423	3,366	1,882	1,484	404,212	2,379,378	689,924	451,412	208,512	5,232,618
	1927	68	162	2,181	2,955	1,888	1,067	318,897	2,211,106	663,973	451,449	212,524	4,771,412
	1919	73	160	2,033	2,334	1,881	453	237,322	1,778,645	723,313	516,112	207,201	3,626,983
Pennsylvania	1929	365	1,192	13,034	23,460	16,605	6,855	2,389,101	12,294,858	4,362,944	3,130,792	1,232,152	28,695,641
	1927	358	962	11,778	21,052	15,111	5,941	1,799,883	11,231,128	3,847,394	2,684,679	1,162,715	24,330,785
	1919	351	1,003	8,584	13,760	11,009	2,751	1,459,390	6,720,792	3,078,721	2,338,073	740,648	14,351,068
Rhode Island	1929	87	188	1,910	4,138	2,884	1,254	448,939	1,917,163	713,252	507,966	205,280	4,747,436
	1927	87	151	1,756	3,752	2,676	1,076	339,301	1,831,059	756,683	537,455	199,228	4,374,846
	1919	70	150	1,035	2,287	1,795	462	201,405	805,303	457,898	315,904	214,994	2,154,662
South Carolina	1929	39	88	1,146	1,272	365	907	151,576	703,181	312,563	205,133	107,430	1,736,162
	1927	32	79	904	924	350	574	115,264	538,395	242,251	163,704	78,547	1,299,562
	1919	28	69	626	654	340	314	91,983	316,689	237,036	167,749	69,287	838,801
South Dakota	1929	30	50	529	915	556	359	93,323	466,844	241,744	163,022	78,722	1,235,347
	1927	22	42	450	757	453	304	87,047	390,973	191,977	119,940	72,937	1,017,662
	1919	29	44	469	702	348	354	62,908	348,306	252,605	172,517	80,068	940,179
Tennessee	1929	88	428	4,792	6,499	4,498	2,001	848,023	3,274,487	1,274,313	969,730	304,583	8,374,322
	1927	74	352	3,995	5,382	3,930	1,452	683,260	2,729,167	1,239,836	944,053	292,783	7,145,855
	1919	59	297	2,693	3,621	2,868	753	434,931	1,292,635	837,634	621,221	216,413	3,639,602
Texas	1929	299	831	10,127	13,769	7,850	5,850	1,759,363	8,045,245	3,166,279	2,289,716	876,563	29,594,600
	1927	228	657	8,568	10,867	6,460	4,407	1,218,319	6,897,767	2,650,641	1,882,989	767,652	16,325,693
	1919	171	678	5,468	5,918	4,415	1,503	950,709	3,399,632	2,070,297	1,540,788	529,809	9,249,915
Utah	1929	23	141	1,227	2,921	2,301	620	265,687	1,010,707	369,568	229,445	80,123	2,591,651
	1927	20	93	894	2,128	1,870	258	178,862	737,773	205,278	142,723	62,555	1,741,498
	1919	27	153	1,040	1,865	1,667	198	199,280	767,711	379,339	264,834	84,605	1,974,166
Vermont	1929	22	21	301	583	364	219	43,173	253,867	100,110	63,964	36,146	575,169
	1927	22	17	290	447	250	197	16,878	213,065	94,057	55,213	38,844	497,979
	1919	28	8	324	478	219	259	16,531	170,099	97,392	57,748	39,644	399,608
Virginia	1929	87	295	2,978	5,027	2,640	2,387	585,509	2,227,853	915,435	647,114	268,321	5,540,426
	1927	77	274	2,817	3,727	1,634	2,093	486,832	2,010,438	844,671	590,659	254,002	4,945,996
	1919	63	256	2,367	1,989	1,238	751	326,067	1,110,763	658,519	485,642	172,877	3,066,759
Washington	1929	140	378	4,211	6,731	3,880	2,851	808,907	4,653,419	1,204,260	860,637	343,623	9,909,901
	1927	154	341	3,819	6,121	4,025	2,096	656,755	4,179,747	1,082,786	757,141	325,645	8,669,323
	1919	177	313	3,539	4,932	3,680	1,252	515,812	3,387,560	1,359,049	1,039,526	319,523	7,336,715
West Virginia	1929	56	130	1,814	3,455	2,005	1,450	264,710	1,704,870	651,929	429,671	152,838	3,793,224
	1927	46	109	1,592	2,946	1,983	963	238,598	1,504,918	515,294	370,865	138,429	4,846,655
	1919	44	87	920	1,457	1,162	295	116,587	616,267	327,396	261,678	75,718	1,776,349
Wisconsin	1929	138	389	3,729	7,353	4,902	2,451	782,120	3,610,633	1,329,367	900,354	428,953	8,682,396
	1927	125	332	3,227	5,582	4,000	1,582	654,194	3,668,918	1,248,095	843,823	404,272	7,147,753
	1919	145	271	2,123	4,071	3,341	730	362,073	1,328,275	629,018	667,329	259,289	3,650,118
Wyoming	1929	27	37	405	1,117	701	416	60,865	432,635	160,162	99,435	46,727	1,065,500
	1927	19	24	335	720	369	351	41,516	333,282	118,247	72,073	45,574	728,993
	1919	23	36	357	719	510	269	46,290	309,815	148,463	95,109	53,884	762,963

¹ Not including proprietors and firm members. The total numbers of persons engaged and the numbers of proprietors and firm members, as reported for this industry, are as follows: For 1929, total, 200,371; proprietors and firm members, 5,220. For 1927, total, 226,268; proprietors and firm members, 5,224. For 1919, total, 152,569; proprietors and firm members, 5,514.

² Not including data for laundries reporting receipts of less than \$5,000; comparable with figures for 1927 and 1929. For some items data for these laundries are not available.

³ This item can not be adjusted, since the data for laundries reporting receipts of less than \$5,000 can not be segregated.

⁴ Figures include data for laundries reporting receipts of less than \$5,000, and are comparable with data reported by States for 1919.

⁵ Data for purchased power other than electric (power transmitted into the plant by belt or shaft) are included in the State items for 1919 but not in the United States totals.

TABLE 3.—GENERAL STATISTICS FOR CITIES HAVING 100,000 INHABITANTS OR MORE: 1929

CITY	Number of laundries	Salaried officers and employ-ees	Wage earners (average for the year)	Horse-power	Salaries	Wages	COST OF SUPPLIES, FUEL, AND PURCHASED ELECTRIC ENERGY		Amount received for work done
							Supplies	Fuel and purchased energy	
Akron, Ohio	16	60	575	944	\$161,259	\$676,420	\$179,253	\$75,584	\$1,643,680
Albany, N. Y.	10	67	381	836	173,604	401,067	96,157	46,665	1,101,372
Atlanta, Ga.	12	188	2,211	2,046	305,404	1,001,949	456,017	137,478	3,871,824
Baltimore, Md.	33	312	2,324	3,248	545,276	1,803,583	493,796	211,440	4,748,015
Birmingham, Ala.	17	138	1,443	1,899	290,061	1,028,429	360,320	77,024	2,588,437
Boston, Mass.	111	318	3,053	6,616	759,187	3,180,366	772,541	357,729	7,524,501
Bridgeport, Conn.	13	43	369	995	118,532	390,275	97,734	42,042	962,353
Buffalo, N. Y.	32	288	2,658	2,658	598,493	2,080,657	642,856	159,701	5,226,770
Cambridge, Mass.	10	57	498	655	148,628	491,781	65,319	40,186	1,187,646
Camden, N. J.	9	26	256	486	78,566	229,099	69,440	30,928	500,004

TABLE 3.—GENERAL STATISTICS FOR CITIES HAVING 100,000 INHABITANTS OR MORE: 1929—Continued

CITY	Number of laundries	Salaried officers and employees	Wage earners (average for the year)	Horse-power	Salaries	Wages	COST OF SUPPLIES, FUEL, AND PURCHASED ELECTRIC ENERGY		Amount received for work done
							Supplies	Fuel and purchased energy	
Canton, Ohio.....	10	37	387	780	\$66,912	\$386,321	\$110,303	\$35,657	\$912,074
Chattanooga, Tenn.....	8	42	438	463	86,241	302,247	105,097	40,934	842,645
Chicago, Ill.....	268	1,646	15,524	28,840	4,831,015	19,645,318	4,328,352	1,979,092	44,813,724
Cincinnati, Ohio.....	38	268	2,105	3,743	460,838	2,090,397	448,352	144,384	4,610,154
Cleveland, Ohio.....	51	294	2,834	4,605	775,908	2,931,238	633,891	264,209	7,393,516
Columbus, Ohio.....	17	101	830	1,542	228,061	730,988	214,047	66,700	1,830,060
Dallas, Tex.....	23	133	1,575	2,491	277,134	1,312,080	317,437	116,781	3,163,873
Dayton, Ohio.....	11	61	702	1,246	172,484	586,201	151,860	49,623	1,495,523
Denver, Colo.....	31	167	1,099	2,157	373,431	1,394,845	306,080	116,155	3,216,812
Des Moines, Iowa.....	9	48	489	893	130,889	467,225	115,192	53,961	1,159,637
Detroit, Mich.....	70	400	4,624	8,236	1,103,602	5,347,406	1,457,026	488,002	13,154,294
Duluth, Minn.....	6	41	223	373	76,521	191,553	52,210	27,054	609,955
Elizabeth, N. J.....	6	47	357	629	82,502	430,723	85,803	26,194	902,108
El Paso, Tex.....	6	50	580	528	109,301	407,017	104,349	35,472	1,022,485
Erie, Pa.....	7	23	243	530	67,027	268,216	60,702	20,622	531,403
Evansville, Ind.....	8	44	430	668	96,919	350,585	93,528	30,834	833,785
Fall River, Mass.....	19	20	294	1,010	28,509	314,652	90,914	44,908	700,588
Filth, Mich.....	7	23	310	225	45,124	343,410	78,439	35,122	761,701
Fort Wayne, Ind.....	4	37	251	376	65,430	253,355	67,445	24,605	595,298
Fort Worth, Tex.....	13	64	703	905	176,645	592,293	161,315	67,052	1,717,409
Gary, Ind.....	6	28	212	337	61,978	183,176	56,212	26,668	473,093
Grand Rapids, Mich.....	10	148	671	1,227	263,007	650,634	142,769	65,607	1,604,821
Hartford, Conn.....	17	77	617	1,365	219,218	701,090	153,145	60,553	1,775,471
Houston, Tex.....	20	177	1,872	2,389	383,169	1,387,499	380,168	132,298	3,541,260
Indianapolis, Ind.....	20	188	1,774	3,171	396,036	1,660,780	428,066	152,204	3,854,258
Jacksonville, Fla.....	7	52	484	552	114,412	338,223	153,041	57,347	1,073,652
Jersey City, N. J.....	20	216	2,508	4,061	600,010	2,714,211	603,162	241,524	6,086,418
Kansas City, Kans.....	10	22	289	705	42,660	253,008	106,517	32,065	610,289
Kansas City, Mo.....	43	259	2,915	4,861	560,770	2,625,458	605,914	244,495	5,768,470
Knoxville, Tenn.....	10	40	496	887	84,013	405,393	127,123	35,580	1,008,389
Long Beach, Calif.....	8	62	531	774	90,621	482,170	82,641	28,500	1,403,745
Los Angeles, Calif.....	70	614	8,949	10,510	1,292,808	8,239,377	1,512,179	324,632	17,400,613
Louisville, Ky.....	36	162	1,547	2,629	337,823	1,191,402	122,154	2,818,238	17,400,613
Lowell, Mass.....	11	12	184	285	15,800	166,845	36,522	19,438	393,779
Lynn, Mass.....	16	38	533	876	80,530	521,748	97,759	40,399	1,101,175
Memphis, Tenn.....	15	136	1,852	2,726	274,078	1,314,127	340,270	88,449	2,987,430
Miami, Fla.....	13	76	684	1,152	160,697	721,340	250,735	103,162	1,951,059
Milwaukee, Wis.....	34	199	1,829	3,245	439,694	1,845,849	405,923	159,503	4,210,132
Minneapolis, Minn.....	44	246	1,810	4,398	464,520	1,888,679	429,858	215,661	4,472,355
Nashville, Tenn.....	8	125	1,164	886	235,894	844,092	223,520	70,102	2,089,491
Newark, N. J.....	41	235	2,137	3,544	686,768	2,425,994	579,503	229,028	5,800,206
New Bedford, Mass.....	19	22	359	717	42,867	369,493	88,340	43,531	791,396
New Haven, Conn.....	18	69	657	1,057	192,723	715,429	152,943	60,023	1,600,127
New Orleans, La.....	14	154	1,834	2,162	242,134	1,163,032	302,031	137,851	3,290,016
New York, N. Y.....	372	1,853	20,668	40,419	5,339,816	24,421,757	6,893,574	2,578,001	58,490,608
Bronx Borough.....	44	324	3,175	5,661	93,457	3,684,832	851,078	400,948	8,886,777
Brooklyn Borough.....	152	675	7,738	17,703	1,732,504	6,718,042	2,912,110	909,340	21,965,935
Manhattan Borough.....	113	610	7,691	12,939	1,925,530	8,408,707	2,306,307	960,165	21,215,443
Queens Borough.....	52	201	1,711	3,556	626,291	2,224,093	586,087	265,146	5,497,727
Richmond Borough.....	11	43	351	563	92,003	385,183	110,983	42,405	924,696
Norfolk, Va.....	11	55	433	910	93,276	324,592	112,288	40,926	830,141
Oakland, Calif.....	40	165	1,477	2,611	422,758	1,865,254	610,912	112,942	4,091,972
Oklahoma City, Okla.....	3	53	1,029	974	142,544	816,420	207,015	53,003	1,926,451
Omaha, Nebr.....	23	84	958	1,694	229,029	793,186	263,401	90,721	2,075,492
Paterson, N. J.....	18	66	586	1,141	158,242	592,100	145,528	61,260	1,287,000
Peoria, Ill.....	9	54	421	644	95,492	373,497	104,900	35,370	946,623
Philadelphia, Pa.....	134	508	5,884	10,582	993,601	5,704,037	1,629,976	595,242	13,257,951
Pittsburgh, Pa.....	27	197	1,655	2,853	443,511	1,838,782	400,077	113,474	4,261,850
Portland, Oreg.....	20	112	1,484	1,803	248,786	1,489,869	280,061	108,452	3,115,501
Providence, R. I.....	41	142	1,272	2,402	352,569	1,330,163	342,927	123,734	3,305,233
Reading, Pa.....	7	32	250	440	85,158	231,411	71,715	28,888	586,338
Richmond, Va.....	6	50	638	831	111,523	485,795	125,217	43,085	1,131,476
Rochester, N. Y.....	18	102	1,004	2,011	209,013	956,014	190,767	88,514	1,935,946
St. Louis, Mo.....	62	389	3,701	6,637	938,823	3,270,789	721,441	306,727	7,604,008
St. Paul, Minn.....	24	128	906	2,023	272,459	840,048	269,307	116,309	2,256,124
Salt Lake City, Utah.....	9	97	812	1,741	175,849	678,858	155,526	45,156	1,683,509
San Antonio, Tex.....	16	53	569	634	111,471	618,184	146,244	68,628	1,430,573
San Diego, Calif.....	20	80	706	1,064	161,699	852,044	167,246	61,620	2,071,731
San Francisco, Calif.....	133	253	3,669	4,764	621,355	4,974,132	688,846	276,123	9,876,099
Scranton, Pa.....	7	35	329	645	63,696	311,712	69,417	26,380	706,911
Seattle, Wash.....	41	177	1,847	2,847	357,120	2,208,770	351,985	110,642	4,483,822
Somerville, Mass.....	13	51	365	652	105,283	413,172	104,318	45,542	1,023,345
South Bend, Ind.....	6	31	328	537	89,740	322,845	90,894	36,134	867,925
Spokane, Wash.....	11	65	506	1,000	200,169	543,389	95,912	39,454	1,189,472
Springfield, Mass.....	11	57	451	875	131,528	440,721	97,276	51,387	1,038,475
Syracuse, N. Y.....	19	62	677	1,043	137,850	630,682	142,254	62,135	1,643,739
Tacoma, Wash.....	11	26	334	447	52,767	264,865	69,026	28,794	852,981
Tampa, Fla.....	12	37	527	947	61,093	301,893	85,451	49,812	903,708
Toledo, Ohio.....	13	73	744	1,233	189,756	759,618	166,666	78,751	1,814,646
Trenton, N. J.....	17	66	489	1,232	95,312	454,520	105,959	45,804	1,139,702
Tulsa, Okla.....	17	72	779	1,054	153,180	665,323	169,439	69,928	1,702,891
Utica, N. Y.....	8	14	210	332	22,855	197,500	39,282	23,203	520,204
Washington, D. C.....	29	347	2,923	3,124	706,754	2,442,988	649,122	212,584	6,128,674
Wichita, Kans.....	7	38	546	792	125,766	509,198	130,420	43,796	1,171,357
Wilmington, Del.....	5	48	329	312	67,319	266,300	46,035	32,253	662,377
Worcester, Mass.....	9	42	398	794	76,726	483,737	100,814	45,103	1,020,881
Yonkers, N. Y.....	7	50	362	713	158,014	403,674	119,008	60,427	1,047,587
Youngstown, Ohio.....	6	50	357	555	134,024	344,584	136,410	35,953	972,945

POWER LAUNDRIES

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TABLE 4.—AMOUNT RECEIVED, BY KIND OF WORK DONE, BY STATES: 1929

[Operators of laundries whose receipts in each case amounted to \$100,000 or more were requested to supply data showing their receipts in detail, by kinds of work done. The laundries reporting such data represented 96 per cent of the number and accounted for 99.1 per cent of the total receipts of those whose receipts amounted to \$100,000 or more, and represented 21.9 per cent of the number and accounted for 63.3 per cent of the aggregate receipts of all laundries from which returns were received, including those reporting less than \$100,000.]

STATE	Laundries reporting in detail	Amount received for work done, total	Bundle work	FAMILY SERVICE			Commercial flat work	Dyeing and cleaning
				Finished family	Semifinished family	Damp wash		
United States.....	1,485	\$343,943,068	\$83,279,446	\$72,675,040	\$64,515,090	\$36,722,510	\$76,411,768	\$10,339,195
Alabama.....	10	2,424,918	671,892	520,377	204,148	94,651	489,329	244,521
Arizona.....	0	1,157,810	592,078	92,082	249,676	24,827	212,929	16,224
Arkansas.....	4	621,003	270,615	194,596	44,000	10,000	102,852	615,588
California.....	149	39,423,924	12,111,651	7,765,047	6,443,082	1,417,490	10,071,166	52,288
Colorado.....	17	3,255,830	1,363,989	317,702	760,225	123,098	632,537	84,776
Connecticut.....	18	3,732,376	920,800	555,712	1,025,375	292,819	852,894	365,326
District of Columbia.....	16	5,108,809	2,177,255	928,392	894,846	238,003	564,987	94,794
Florida.....	16	3,494,745	1,017,107	694,010	287,469	101,764	1,299,602	728,813
Georgia.....	9	4,153,466	959,312	890,133	303,181	82,582	1,219,445	44,050
Idaho.....	3	314,673	103,709	77,090	25,121	1,361	63,342	618,183
Illinois.....	200	46,226,740	9,453,792	7,644,304	9,685,649	9,593,436	9,201,376	289,036
Indiana.....	34	7,108,941	1,868,468	1,514,122	1,733,430	941,223	762,162	236,808
Iowa.....	11	1,779,634	540,985	188,176	460,056	113,632	240,677	223,407
Kansas.....	12	1,988,414	520,792	327,309	332,358	144,317	440,233	49,500
Kentucky.....	11	1,719,761	405,960	434,485	490,175	118,170	221,445	816,206
Louisiana.....	16	4,504,892	1,073,064	600,437	654,313	258,661	1,162,211	146,001
Maine.....	3	523,535	165,140	3,301	181,985	27,108	343,668	2,040
Maryland.....	15	3,950,543	1,182,752	723,830	824,044	883,209	2,047,707	106,484
Massachusetts.....	00	11,960,688	3,103,423	2,838,523	2,371,764	1,522,787	4,849,800	574,630
Michigan.....	52	14,409,676	3,831,721	1,716,937	2,345,461	1,091,227	1,861,846	395,785
Minnesota.....	29	5,713,092	1,224,036	852,870	943,517	435,038	1,820,691	96,532
Mississippi.....	6	810,468	393,879	142,202	62,624	18,250	99,981	496,238
Missouri.....	68	13,243,573	3,830,380	3,305,048	2,468,092	1,005,416	2,048,399	11,139
Montana.....	5	597,716	231,627	102,863	80,093	60,933	111,070	990
Nebraska.....	10	1,796,725	659,202	220,526	514,695	71,590	329,462	4,280,764
New Jersey.....	61	18,985,212	2,893,262	4,799,085	5,126,819	1,871,350	99,806	180,765
New Mexico.....	3	499,704	165,473	105,607	43,644	87,914	587,745	1,368
New York.....	200	64,136,243	8,913,667	18,312,318	11,150,463	10,287,664	15,841,566	183,365
North Carolina.....	17	2,753,924	671,519	821,953	289,842	200,470	59,612	4,122,691
North Dakota.....	4	404,013	232,082	61,253	83,144	27,464	577,181	254,489
Ohio.....	78	17,981,488	4,233,365	3,882,368	3,792,827	1,151,981	913,270	75,654
Oklahoma.....	14	3,672,227	1,016,551	796,425	504,183	623,898	76,763	382,996
Oregon.....	16	3,231,781	1,407,255	289,901	468,938	76,763	300,711	534,860
Pennsylvania.....	73	16,777,751	3,678,316	4,004,877	2,923,900	1,575,978	2,623,886	834,952
Rhode Island.....	9	2,267,862	490,355	516,563	781,196	126,414	595,485	26,269
Tennessee.....	20	6,093,998	1,681,306	1,610,438	796,270	479,541	961,643	46,623
Texas.....	50	11,697,364	3,920,437	1,945,850	1,980,019	302,224	2,623,886	534,860
Utah.....	9	2,025,273	544,912	17,379	533,950	307,278	595,485	834,952
Virginia.....	13	2,150,913	693,473	388,610	323,050	193,813	436,667	115,300
Washington.....	29	4,948,469	1,808,750	819,669	540,802	186,486	1,309,523	289,249
West Virginia.....	7	1,426,124	350,359	351,195	267,036	116,775	183,682	97,077
Wisconsin.....	21	3,998,154	998,448	1,012,553	1,203,807	296,657	261,295	225,304
Other States.....	10	1,650,726	664,461	201,901	282,864	148,488	235,585	117,427

¹Delaware, 2 establishments; Nevada, 2; New Hampshire, 1; South Carolina, 2; South Dakota, 2; Wyoming, 1.

TABLE 5.—PERSONS ENGAGED IN THE INDUSTRY, BY CLASS AND BY SEX, FOR THE UNITED STATES: 1929 AND 1919

CLASS	Census year	Total	Male	Female	PER CENT OF TOTAL	
					Male	Female
All classes.....	1929	260,371	94,654	165,717	36.4	63.6
	1919	152,569	53,150	99,419	34.8	65.2
Proprietors and firm members.....	1929	5,220	4,864	416	92.0	8.0
	1919	5,514	5,100	414	92.5	7.5
Salaried officers and employees.....	1929	21,964	11,966	9,998	54.5	45.5
	1919	15,176	9,397	5,779	61.9	38.1
Salaried officers of corporations.....	1929	4,923	4,539	384	92.2	7.8
	1919	2,071	1,940	131	93.7	6.3
Other salaried employees.....	1929	17,041	7,427	9,614	43.6	56.4
	1919	13,105	7,457	5,648	56.9	43.1
Wage earners (average for the year).....	1929	233,187	77,884	155,303	33.4	66.6
	1919	131,879	38,653	93,226	29.3	70.7

CENSUS OF MANUFACTURES: 1929

TABLE 6.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1929, 1919, 1914, AND 1909, AND BY STATES, 1929

[The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures]

STATE	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum
		January	February	March	April	May	June	July	August	September	October	November	December	
United States:														
1929	233,187	229,015	<i>229,494</i>	230,429	231,340	232,319	234,575	237,590	236,041	236,302	233,985	232,780	232,573	96.6
1919	131,879	128,821	<i>128,689</i>	129,305	129,569	130,449	132,032	134,913	134,747	133,503	133,041	133,380	134,163	95.5
1914	130,641	128,479	<i>127,847</i>	128,525	129,716	131,393	133,865	134,989	134,078	132,512	129,992	128,320	128,004	94.7
1909	109,484	<i>108,740</i>	103,937	104,970	106,422	108,149	111,313	114,211	114,639	113,738	111,500	110,479	110,805	90.6
Alabama	2,657	2,626	<i>2,605</i>	2,630	2,642	2,657	2,691	2,698	2,691	2,691	2,663	2,632	2,654	96.6
Arizona	909	935	949	938	940	917	903	880	<i>855</i>	864	893	903	920	92.1
Arkansas	1,219	1,200	1,207	1,216	1,216	1,206	1,224	1,234	1,233	1,229	1,220	1,206	1,223	97.7
California	21,457	21,605	21,382	21,454	<i>21,072</i>	21,334	21,293	21,722	21,707	21,645	21,416	21,420	21,427	97.0
Colorado	2,875	2,759	2,749	<i>2,746</i>	2,782	2,835	2,982	3,100	3,120	2,989	2,843	2,815	2,804	88.0
Connecticut	3,385	<i>3,365</i>	3,282	3,289	3,327	3,345	3,429	3,471	3,497	3,493	3,441	3,401	3,398	93.7
Delaware	369	374	<i>346</i>	353	376	366	367	391	377	374	371	362	375	88.5
District of Columbia	2,923	2,885	<i>2,861</i>	2,907	2,919	2,912	2,913	2,973	2,910	2,918	2,909	2,942	2,961	96.2
Florida	3,051	3,317	3,442	3,426	3,173	2,966	2,894	2,870	2,798	2,823	2,857	2,923	3,117	81.3
Georgia	3,880	<i>3,865</i>	3,867	3,874	3,897	3,883	3,897	3,913	3,899	3,880	3,869	3,865	3,867	98.5
Idaho	735	736	718	728	720	731	728	726	748	747	757	750	730	94.8
Illinois	21,020	20,696	<i>20,667</i>	20,775	20,895	21,085	21,138	21,176	21,239	21,284	21,194	21,163	21,170	95.7
Indiana	5,275	5,332	5,262	5,256	5,287	5,258	5,261	5,207	5,271	5,303	5,278	5,260	5,266	98.5
Iowa	2,282	2,258	<i>2,243</i>	2,265	2,275	2,272	2,294	2,285	2,294	2,292	2,293	2,297	2,317	95.8
Kansas	2,440	<i>2,414</i>	2,417	2,427	2,439	2,451	2,464	2,452	2,480	2,485	2,460	2,438	2,426	97.1
Kentucky	3,450	3,413	<i>3,410</i>	3,447	3,469	3,439	3,481	3,505	3,474	3,464	3,428	3,430	3,433	97.3
Louisiana	2,843	<i>2,798</i>	2,740	2,760	2,910	2,980	2,940	2,900	2,865	2,905	2,893	2,773	2,801	90.5
Maine	1,098	987	992	980	990	1,017	1,083	1,274	1,303	1,153	1,007	1,012	1,012	75.2
Maryland	3,017	2,973	2,969	<i>2,934</i>	3,005	3,024	3,034	3,047	3,032	3,047	3,050	3,080	3,026	95.0
Massachusetts	10,736	10,526	10,540	<i>10,480</i>	10,593	10,663	10,849	11,086	11,003	10,883	10,779	10,738	10,688	94.5
Michigan	8,386	8,161	8,186	8,297	8,397	8,432	8,616	8,828	8,808	8,605	8,273	8,076	<i>7,949</i>	82.7
Minnesota	3,718	3,664	3,690	3,694	3,731	3,746	3,771	3,797	3,780	3,741	3,720	3,667	<i>3,619</i>	95.3
Mississippi	1,367	1,362	1,366	1,377	1,381	1,376	1,380	1,358	1,351	1,383	1,360	1,348	1,349	97.5
Missouri	8,632	8,509	8,543	8,518	8,528	8,629	8,650	8,651	8,643	8,783	8,746	8,657	8,646	97.1
Montana	758	776	771	778	770	631	<i>613</i>	825	802	791	783	783	772	74.3
Nebraska	1,891	<i>1,821</i>	1,829	1,844	1,855	1,863	1,935	1,920	1,931	1,938	1,933	1,910	1,904	94.0
Nevada	240	<i>225</i>	225	227	229	246	249	248	248	243	242	244	246	90.4
New Hampshire	829	774	785	775	771	806	845	927	968	902	823	799	772	79.8
New Jersey	11,920	11,434	11,341	11,549	11,706	11,803	<i>11,124</i>	12,329	12,427	12,334	12,051	11,952	11,942	89.5
New Mexico	509	558	<i>554</i>	556	553	573	575	587	594	585	574	561	<i>559</i>	94.4
New York	31,391	30,811	30,815	<i>30,748</i>	31,014	31,350	31,555	32,203	31,954	31,842	31,543	31,427	31,427	95.5
North Carolina	4,050	3,977	3,995	4,010	4,026	4,038	4,079	4,116	4,146	4,097	4,047	4,035	4,033	95.9
North Dakota	374	370	367	367	373	374	375	380	383	378	376	372	371	95.8
Ohio	11,184	11,038	<i>10,999</i>	11,086	11,168	11,127	11,317	11,358	11,204	11,205	11,201	11,194	11,212	96.8
Oklahoma	3,632	3,641	3,634	3,626	3,614	3,602	3,649	3,659	3,671	3,707	3,706	3,671	3,646	97.2
Oregon	2,423	2,398	<i>2,368</i>	2,388	2,400	2,415	2,440	2,478	2,455	2,408	2,480	2,416	2,406	95.6
Pennsylvania	13,034	13,007	12,962	<i>13,025</i>	12,968	12,983	12,961	13,010	<i>12,804</i>	13,085	13,130	13,214	13,158	97.7
Rhode Island	1,910	1,881	1,874	<i>1,856</i>	1,882	1,876	1,918	1,962	1,959	1,951	1,994	1,906	1,921	94.6
South Carolina	1,146	1,152	1,152	1,151	1,139	1,131	1,151	1,154	1,153	1,147	1,148	1,147	1,146	97.1
South Dakota	529	<i>515</i>	515	516	518	520	533	554	551	539	535	524	526	93.0
Tennessee	4,792	4,755	4,757	4,767	4,758	4,774	4,810	4,890	4,871	4,800	4,762	4,751	4,814	96.8
Texas	10,127	9,944	<i>9,877</i>	9,973	9,993	10,086	10,287	10,288	10,388	10,358	10,201	10,105	10,043	95.3
Utah	1,227	1,230	1,210	<i>1,204</i>	1,223	1,220	1,242	1,259	1,284	1,229	1,200	1,216	1,214	95.3
Vermont	301	<i>285</i>	287	287	291	300	315	326	323	311	307	296	288	87.4
Virginia	2,978	2,919	<i>2,916</i>	2,933	2,961	2,955	3,002	3,075	3,062	3,047	2,992	2,955	2,922	94.8
Washington	4,211	4,147	<i>4,091</i>	4,152	4,167	4,188	4,222	4,261	4,265	4,294	4,295	4,245	4,200	95.3
West Virginia	1,814	1,791	1,780	1,778	1,825	1,822	1,836	1,830	1,828	1,827	1,823	1,818	1,810	96.8
Wisconsin	3,729	<i>3,699</i>	3,637	3,630	3,709	3,735	3,801	3,829	3,817	3,803	3,733	3,701	3,675	94.8
Wyoming	405	385	<i>381</i>	382	388	397	422	443	447	430	403	391	385	85.2

1 Includes data for laundries reporting receipts of less than \$5,000.

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TABLE 7.—WAGE EARNERS (AVERAGE FOR THE YEAR), BY PREVAILING NUMBER OF HOURS OF LABOR PER WEEK, BY STATES: 1929 AND 1919

[The average number of wage earners employed during the year in each laundry is classified as a total according to the customary hours of labor in that laundry, even though a few employees may have worked a larger or a smaller number of hours]

STATE	Census year	Aggregate	NUMBER EMPLOYED IN LAUNDRIES IN WHICH THE PREVAILING HOURS OF LABOR PER WEEK WERE—										
			Under 45				45 and over but under 48 ²	48	Over 48 but under 54	54	Over 54 but under 60	60 and over	
			Total (under 45) ¹	Under 40	40	Over 40 but under 44							44 and over but under 45
United States.....	1929	233,187	28,601	2,731	7,587	1,099	17,184	16,883	57,029	69,198	46,356	7,757	7,363
	1919	131,879	11,221					8,533	41,413	31,765	28,271	5,001	5,675
Alabama.....	1929	2,657	93		21		72		688	148	841	145	742
	1919	1,462						64	320	189	299	48	542
Arizona.....	1929	909	81	41	14	26			618	43	167		
	1919	539	15					31	401	23	69		
Arkansas.....	1929	1,219	66		13	10	43	44	68	104	805		132
	1919	937	19					24	291	30	501		72
California.....	1929	21,457	1,151	88	251	18	794		16,623	316	2,802	133	432
	1919	11,264	346					649	9,502	84	492	30	251
Colorado.....	1929	2,875	516	52	208	13	243	8	1,869	274	178		
	1919	2,086	244					198	1,382	151	61		50
Connecticut.....	1929	3,385	857	105	249	9	494	494	98	1,950	205	304	17
	1919	2,024	222					110	352	615	232	490	3
Delaware.....	1929	369	32		32				2	34	301		
	1919	284						4	9	110	117	44	
District of Columbia.....	1929	2,923	624		141		453		1,687		409		203
	1919	1,655	168					91	1,253	18	125		
Florida.....	1929	3,051	433	28	49	15	341		418	370	648	203	979
	1919	983	2					64	158	129	256		374
Georgia.....	1929	3,880	66		8	40	18	78	252	2,020	688	307	469
	1919	2,194						54	487	842	542	418	608
Idaho.....	1929	735	63				63		510	54	102		6
	1919	571	16					10	162	36	325	22	
Illinois.....	1929	21,020	1,979	5	313	309	1,352	1,959	1,781	9,960	3,863	990	488
	1919	10,579	848					938	1,529	4,189	1,780	689	606
Indiana.....	1929	5,275	452	2	263		217	558	176	2,453	1,477	129	
	1919	3,568	311					233	372	1,133	1,155	292	72
Iowa.....	1929	2,282	180	32	8		140	112	472	541	795	170	12
	1919	2,074	188					256	392	475	619	170	24
Kansas.....	1929	2,449	170	20	130		20	263	1,193	562	170		91
	1919	1,959	139					41	256	380	1,114	22	7
Kentucky.....	1929	3,450	202	5	135	21	41	421	136	1,499	641	360	191
	1919	2,294	117					21	146	653	652	335	370
Louisiana.....	1929	2,843	27		27			16	31	140	2,129		500
	1919	1,605	107					27	62	796	311		302
Maine.....	1929	1,068	152	16	35	0	95	69	54	453	313	27	
	1919	903	94					34	83	238	520	14	10
Maryland.....	1929	3,017	276	10	99	153	17	262	191	486	1,029	340	430
	1919	1,619	66					72	176	517	443	236	109
Massachusetts.....	1929	10,736	3,106	678	876	14	1,538	901	5,070	1,252	216	191	
	1919	6,821	1,252					413	4,714	279	160		3
Michigan.....	1929	8,386	801	73	548		180	877	743	3,992	1,628	305	40
	1919	4,013	211					87	868	1,603	2,055	67	122
Minnesota.....	1929	3,718	486	304	37		145	148	1,422	1,063	582	2	15
	1919	3,277	442					158	1,585	738	322	16	18
Mississippi.....	1929	1,367	5		5			33	154	261	340	77	497
	1919	634	10					20	3	123	222	4	246
Missouri.....	1929	8,632	315	3	85	3	224	701	548	2,019	4,961	2	86
	1919	5,997	143					418	404	1,424	3,411		197
Montana.....	1929	758	70	5	45		20		662	26			3
	1919	971	75						890		3		
Nebraska.....	1929	1,891	81	2	16		63	123	189	627	833		38
	1919	1,471	48					57	151	757	323	132	3
Nevada.....	1929	240	33				33		153	24			30
	1919	148	13						117	9			9
New Hampshire.....	1929	829	283	82	66	8	127	118	146	233	24	27	
	1919	616	68					5	138	228	151	15	11
New Jersey.....	1929	11,920	2,070	151	984	12	923	1,440	2,338	4,561	811	623	77
	1919	3,681	755					500	611	1,140	463	54	68
New Mexico.....	1929	569	23		23				469	38	39		
	1919	292	9					30	153		90		10
New York.....	1929	31,391	7,952	193	1,002	118	6,679	2,643	5,538	13,222	1,121	631	184
	1919	11,998	1,991					990	3,743	3,278	1,796	66	34

See footnotes at end of table.

CENSUS OF MANUFACTURES: 1929

TABLE 7.—WAGE EARNERS (AVERAGE FOR THE YEAR), BY PREVAILING NUMBER OF HOURS OF LABOR PER WEEK, BY STATES: 1929 AND 1919—Continued

[See note at head of this table]

STATE	Census year	Aggregate	NUMBER EMPLOYED IN LAUNDRIES IN WHICH THE PREVAILING HOURS OF LABOR PER WEEK WERE—										
			Under 45					45 and over but under 48 ²	48	Over 48 but under 54	54	Over 54 but under 60	60 and over
			Total (Under 45) ¹	Under 40	40	Over 40 but under 44	44 and over but under 45						
North Carolina.....	1929	4,050	119	26	71	-----	22	240	185	1,560	1,178	302	466
	1919	1,438	12	-----	-----	-----	-----	17	159	323	388	117	417
North Dakota.....	1929	374	47	-----	-----	47	-----	-----	312	-----	-----	-----	15
	1919	426	103	-----	-----	-----	-----	19	248	32	18	-----	6
Ohio.....	1929	11,184	1,842	46	497	60	1,239	1,604	491	6,274	786	184	3
	1919	7,040	338	-----	-----	-----	-----	653	1,134	4,239	589	44	43
Oklahoma.....	1929	3,652	37	9	-----	-----	28	140	198	523	2,720	34	-----
	1919	1,994	26	-----	-----	-----	-----	107	244	244	1,362	-----	11
Oregon.....	1929	2,423	135	2	68	-----	65	108	2,092	88	-----	-----	9
	1919	2,033	368	-----	-----	-----	-----	413	14	14	42	-----	-----
Pennsylvania.....	1929	13,034	1,490	423	533	99	435	1,601	1,057	6,829	1,095	380	182
	1919	8,584	822	-----	-----	-----	-----	698	1,061	3,823	1,982	93	105
Rhode Island.....	1929	1,910	361	183	118	8	52	187	394	880	49	28	5
	1919	1,035	244	-----	-----	-----	-----	31	276	486	48	-----	-----
South Carolina.....	1929	1,146	20	16	-----	-----	4	25	110	179	418	164	221
	1919	625	-----	-----	-----	-----	-----	80	85	85	256	120	84
South Dakota.....	1929	529	51	-----	-----	-----	51	-----	103	276	83	-----	16
	1919	469	50	-----	-----	-----	-----	-----	117	219	40	-----	43
Tennessee.....	1929	4,792	108	-----	86	-----	22	108	376	599	2,207	1,151	243
	1919	2,693	103	-----	-----	-----	-----	73	337	475	793	840	72
Texas.....	1929	10,127	403	49	37	42	275	589	1,660	715	6,733	27	-----
	1919	5,468	110	-----	-----	-----	-----	300	1,496	503	3,022	-----	87
Utah.....	1929	1,227	55	-----	5	-----	50	-----	1,138	18	-----	-----	16
	1919	1,040	99	-----	-----	-----	-----	64	839	38	-----	-----	-----
Vermont.....	1929	301	26	8	-----	-----	18	21	0	196	36	16	-----
	1919	324	37	-----	-----	-----	-----	6	76	6	90	82	27
Virginia.....	1929	2,978	66	3	49	14	-----	253	186	617	1,275	265	310
	1919	2,367	112	-----	-----	-----	-----	-----	653	384	536	137	545
Washington.....	1929	4,211	417	32	243	2	140	45	3,592	117	40	-----	-----
	1919	3,539	546	-----	-----	-----	-----	324	2,488	-----	127	-----	54
West Virginia.....	1929	1,814	171	13	79	17	62	193	210	646	436	-----	158
	1919	920	3	-----	-----	-----	-----	85	207	317	194	34	80
Wisconsin.....	1929	3,729	521	18	51	28	426	593	249	1,950	282	180	44
	1919	2,123	321	-----	-----	-----	-----	126	286	731	261	370	28
Wyoming.....	1929	465	54	8	7	9	30	-----	332	-----	-----	-----	19
	1919	357	52	-----	-----	-----	-----	18	219	64	4	-----	-----

¹ Includes only "44 and under" for 1919.

² Covers "Between 44 and 48" for 1919.

TABLE 8.—SIZE OF LAUNDRIES—SUMMARY FOR LAUNDRIES CLASSIFIED AS TO SIZE BY NUMBER OF WAGE EARNERS: 1929, 1919, AND 1909

WAGE EARNERS (average for the year)	NUMBER OF LAUNDRIES			WAGE EARNERS (average for the year)			COST OF SUPPLIES ¹	COST OF FUEL AND PURCHASED ELECTRIC ENERGY ¹	AMOUNT RECEIVED FOR WORK DONE ¹
	1929	1919 ²	1909 ²	1929	1919 ²	1909 ²			
All laundries.....	6,776	5,078	5,186	233,187	131,879	109,484	\$56,975,690	\$23,289,109	\$541,168,197
No wage earners.....	17	167	59	-----	-----	-----	13,241	6,402	95,073
1 to 5.....	1,350	1,538	1,434	6,779	4,555	4,555	2,463,080	682,680	16,701,898
6 to 20.....	2,271	2,111	2,200	28,954	25,110	25,707	7,889,509	4,367,977	68,341,850
21 to 50.....	1,877	1,201	1,600	60,088	39,263	32,719	14,999,148	7,040,933	142,883,053
51 to 100.....	812	478	350	67,108	33,947	24,244	13,532,904	6,417,427	132,084,269
101 to 250.....	385	171	128	56,453	24,516	17,569	12,762,270	4,317,897	128,689,924
251 to 500.....	51	-----	14	16,041	-----	4,103	3,861,873	1,211,745	37,644,132
501 and over.....	13	12	1	6,864	4,571	587	1,453,665	244,168	16,018,013

¹ No corresponding figures were tabulated for earlier years.

² The 1919 and 1909 figures include data for establishments reporting receipts of less than \$5,000. (See "Limitation of statistics to establishments reporting receipts of \$5,000 or more," p. 1392.)

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TABLE 9.—SIZE OF LAUNDRIES—SUMMARY FOR LAUNDRIES CLASSIFIED AS TO SIZE BY AMOUNT RECEIVED FOR WORK DONE: 1929, 1925, AND 1919

AMOUNT RECEIVED FOR WORK DONE	NUMBER OF LAUNDRIES			WAGE EARNERS (average for the year)			AMOUNT RECEIVED FOR WORK DONE		
	1929	1925	1919	1929	1925	1919	1929	1925	1919
All laundries.....	6,776	4,859	5,678	233,187	189,200	131,879	\$541,158,197	\$362,294,749	\$236,382,369
Less than \$5,000.....	(¹)	(¹)	797	(¹)	(¹)	1,390	(¹)	(¹)	2,568,542
\$5,000 to \$10,999.....	1,888	1,162	2,061	11,559	8,430	14,429	23,629,718	14,644,414	23,517,926
\$20,000 to \$99,999.....	3,341	2,635	2,236	75,857	61,119	59,490	170,372,285	125,407,027	101,788,800
\$20,000 to \$49,999.....	1,944	(²)	(¹)	30,127	(²)	(²)	64,687,177	(²)	(²)
\$50,000 to \$99,999.....	1,397	(²)	(²)	45,730	(²)	(²)	105,685,108	(²)	(²)
\$100,000 to \$499,999.....	1,454	1,062	584	117,351	99,651	56,570	275,542,147	222,153,308	108,609,601
\$100,000 to \$249,999.....	1,137			73,328			171,327,800		
\$250,000 to \$499,999.....	317			44,025			104,214,347		
\$500,000 to \$999,999.....	75			19,025			48,054,681		
\$1,000,000 and over.....	18			9,395			23,559,366		

¹ No data collected from establishments with receipts of less than \$5,000.
² No corresponding figures were tabulated for 1925 and 1919.

TABLE 10.—TYPE OF OWNERSHIP—SUMMARY FOR LAUNDRIES CLASSIFIED AS UNDER CORPORATE OR OTHER FORM OF OWNERSHIP (OR CONTROL) AND AS UNDER CENTRAL-ADMINISTRATIVE-OFFICE OR INDEPENDENT OPERATION: 1929 AND 1919

TYPE OF OWNERSHIP OR CONTROL, AND OF OPERATION	NUMBER OF LAUNDRIES		SALARIED OFFICERS AND EMPLOYEES	WAGE EARNERS (average for the year)		AMOUNT RECEIVED FOR WORK DONE	
	1929	1919		1929	1919	1929	1919
Total.....	6,776	5,678	21,964	233,187	131,879	\$541,158,197	\$236,382,369
Type of ownership or control:							
Corporate ownership or control.....	2,911	1,698	18,131	167,142	77,815	400,963,838	143,048,526
Other forms of ownership or control (individual, partnership, etc.).....	3,865	3,980	3,833	66,045	54,064	140,194,359	93,333,843
Type of operation:							
Central-administrative-office (plural-unit).....	3,490	(¹)	2,632	26,394	(¹)	62,263,131	(¹)
Independent (single-unit).....	3,286	(¹)	19,432	206,793	(¹)	478,895,066	(¹)

¹ Not tabulated for 1919.

TABLE 11.—PRIME MOVERS, MOTORS, GENERATORS, AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY—NUMBER AND RATED CAPACITY OF PRIME MOVERS AND ELECTRIC MOTORS, 1929, 1927, 1925, 1919, AND 1914, AND OF GENERATORS, 1929, 1927, AND 1925; QUANTITY OF ELECTRIC ENERGY PURCHASED, 1929

TYPE	1929		1927		1925		1919		1914		PER CENT DISTRIBUTION OF RATED HORSEPOWER CAPACITY	
	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	1929	1919
Prime movers and electric motors driven by purchased energy, aggregate.....	46,234		35,200		24,247		13,282		10,830		100.0	100.0
Prime movers, total.....	3,842	249,708	3,568	216,065	3,262	184,177	3,684	147,261	4,902	146,817	62.4	77.0
Steam, total.....	3,781	247,785	3,491	213,577	3,211	182,757	3,461	144,194	4,423	141,224	61.9	75.4
Engines.....	3,626	234,768	3,366	203,898	3,130	178,331	3,363	139,547	(¹)	(¹)	58.6	73.0
Turbines.....	155	13,017	125	9,679	81	4,426	98	4,647	(¹)	(¹)	3.3	2.4
Internal-combustion engines.....	61	1,923	75	2,452	51	1,420	212	2,908	368	4,915	0.5	1.5
Water wheels and water turbines.....			2	36			11	159	111	678		0.1
Electric motors driven by purchased energy.....	42,392	150,588	31,632	119,873	20,985	79,421	9,578	43,887	5,928	24,655	37.6	23.0
Electric motors, total.....	67,890	228,750	51,218	180,795	37,778	130,421	17,117	75,276	12,260	44,168	100.0	100.0
Driven by purchased energy.....	42,392	150,588	31,632	119,873	20,985	79,421	9,578	43,887	5,928	24,655	65.8	58.3
Driven by energy generated in establishments reporting.....	25,498	78,162	19,586	60,922	16,793	51,000	7,539	31,389	6,332	19,513	34.2	41.7
Electric generators.....	1,164	Kilowatts 83,726	853	Kilowatts 69,975	747	Kilowatts 54,008	(²)	(²)	(²)	(²)		
Electric energy purchased ³		Kilowatt-hours 151,784,025		(⁴)		(⁴)		(⁴)		(⁴)		

¹ Not called for separately on schedule.
² Not called for on schedule.
³ This item covers the consumption of purchased electric energy for all purposes—power, heat, light, etc.
⁴ Data incomplete.

CENSUS OF MANUFACTURES: 1929

TABLE 12.—FUEL, BY KIND, QUANTITY, AND COST, 1929, AND BY KIND AND QUANTITY, 1919, 1914, AND 1909

KIND	1929		1919 ¹	1914 ¹	1909 ¹
	Quantity	Cost	Quantity	Quantity	Quantity
Total cost of fuel.....		\$17,633,724			
Fuel:					
Coal, total ² (tons, 2,000 lbs.).....	2,679,884	12,952,576	1,599,720	1,451,124	1,086,811
Anthracite (tons, 2,240 lbs.).....	107,911	1,127,058	226,527	212,892	178,640
Bituminous (tons, 2,000 lbs.).....	2,559,024	11,825,518	1,346,010	1,212,687	880,734
Coke (tons, 2,000 lbs.).....	11,527	102,118	22,484	16,161	14,785
Fuel oils, including crude oils and gas oils (gallons).....	59,746,836	2,281,395	30,636,648	29,841,252	15,648,012
Gasoline and kerosene (gallons).....	88,160	15,570	1,575,084		
Gas, natural and manufactured (M cu. ft.).....	4,519,449	1,286,477	2,001,285	3,786,429	2,720,324
Other fuels.....		1,045,588			

¹ No data on cost of fuel, by kinds, were collected for years prior to 1929.

² Calculated by adding the number of tons of bituminous coal and the number of tons of anthracite reduced to a 2,000-pound basis.

DYEING AND CLEANING ESTABLISHMENTS

Description of the industry.—The canvasses for 1929, 1927, and 1925 were restricted to dyeing and cleaning plants using mechanical power and reporting receipts of \$5,000 or more, and that for 1919 covered all such plants reporting receipts of \$500 or more. Whenever possible, separate reports were obtained from dry-cleaning departments of laundries, each such department being counted as a dyeing and cleaning establishment. Pressing and tailor shops, even though they used power machines, were not canvassed.

The statistics for this industry should not be confused with those for "Dyeing and finishing textiles," which is a manufacturing industry in the "Textiles" group.

Comparison with earlier years.—In order to present statistics for 1919 which are strictly comparable with those for later years, the United States totals for 1919 have been adjusted, so far as possible, by deducting the data for dyeing and cleaning establishments reporting receipts of less than \$5,000. The State figures can not, however, be thus adjusted. The adjusted United States totals for 1919, comparable with those for later years, are given in Tables 1 and 2, and are followed by the unadjusted figures. (See "Limitation of statistics to establishments reporting receipts of \$5,000 or more, p. 1392.")

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1919 TO 1929

YEAR OR PERIOD ¹	Number of establishments	Wage earners (average for the year)	Wages	Cost of supplies, fuel, and purchased electric energy ²	Amount received for work done ³	Horsepower
1929.....	5,296	59,148	\$75,931,219	\$25,836,675	\$201,255,360	84,445
1927.....	3,175	40,251	52,541,894	20,138,802	142,813,616	51,728
1925.....	2,407	29,386	37,589,624	16,001,896	102,394,284	40,523
1919 ⁴	1,748	18,408	17,866,107	11,971,398	53,182,742	22,557
1919 ⁵	2,150	18,807	18,245,024	12,262,209	54,421,305	23,781
PER CENT OF INCREASE						
1927-1929.....	66.8	46.9	44.5	33.6	40.9	63.2
1925-1927.....	32.0	37.0	38.8	26.0	39.5	27.7
1919-1925.....	37.6	39.6	110.4	33.7	92.5	79.6
1919-1929.....	203.0	221.3	325.0	125.0	278.4	274.4

¹ See first paragraph of text, p. 1392.

² See "Profits and production costs," p. 1392.

³ In addition, receipts for dyeing and cleaning to the amount of \$13,403,534 were reported by 654 laundries.

⁴ Exclusive of data for establishments reporting receipts of less than \$5,000; comparable with figures for later years. (See "Comparison with earlier years," above.)

⁵ Includes data for establishments reporting receipts of less than \$5,000; comparable with figures for earlier years. (See "Comparison with earlier years," above.)

CENSUS OF MANUFACTURES: 1929

TABLE 2.—GENERAL STATISTICS, BY STATES: 1929, 1927, AND 1919

STATE	Census year	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF SUPPLIES, FUEL, AND PURCHASED ELECTRIC ENERGY			AMOUNT RECEIVED FOR WORK DONE		
					Total	Prime movers	Motors run by purchased energy			Total ²	Supplies ¹	Fuel and purchased energy	Total	Retail	Wholesale
United States.....	1929	5,296	6,244	59,118	84,415	17,289	67,156	\$20,300,094	\$75,931,219	\$26,836,675	\$20,308,267	\$6,528,408	\$201,255,360	\$156,858,377	\$44,396,983
	1927	3,175	7,332	40,251	51,728	11,492	40,236	14,471,265	52,511,894	20,168,802	20,168,802	(5)	142,813,610	110,613,309	32,200,307
	1919	1,734	(7)	18,408	22,557	8,878	18,078	(3)	17,866,107	11,971,398	(7)	53,182,742	(7)	(7)	(7)
	1919	32,156	3,842	18,807	23,781	8,879	14,902	5,275,883	18,245,024	12,262,209	10,262,310	1,999,899	54,421,305	(10)	(10)
Alabama.....	1929	95	123	987	1,019	781	865	222,356	884,008	310,514	231,292	79,222	2,349,075	2,275,815	73,860
	1927	57	123	644	615	198	417	208,461	595,825	238,808	238,808	(5)	1,679,385	1,580,670	98,709
	1919	27	33	220	219	141	78	47,126	158,458	117,942	96,014	21,028	487,293	(10)	(10)
Arizona.....	1929	27	24	251	254	19	235	43,736	203,714	114,062	86,595	27,167	707,239	660,387	46,852
	1927	15	17	103	103	4	90	34,857	149,203	41,423	41,423	(5)	366,122	353,425	12,697
	1919	15	8	79	60		60	7,138	95,047	32,978	23,369	9,609	200,055	(10)	(10)
Arkansas.....	1929	81	46	497	558	63	495	72,412	496,853	178,511	130,966	47,545	1,389,789	1,305,072	24,717
	1927	35	55	281	333	59	243	73,928	268,840	108,105	108,105	(5)	802,609	849,707	12,802
	1919	10	14	75	120	49	71	17,131	60,635	43,203	35,261	7,942	215,912	(10)	(10)
California.....	1929	415	531	4,757	6,548	946	5,602	1,029,073	6,947,164	1,943,635	1,593,311	350,324	16,785,444	12,337,622	4,447,822
	1927	283	406	3,548	3,798	586	3,212	887,308	4,969,488	1,608,722	1,608,722	(5)	11,679,708	9,474,102	2,195,606
	1919	160	231	1,687	1,697	342	1,355	336,454	1,618,999	829,256	707,212	122,044	4,382,289	(10)	(10)
Colorado.....	1929	90	94	620	831	162	672	168,614	719,805	261,387	192,701	68,596	2,018,810	1,726,000	292,160
	1927	76	97	539	827	251	576	157,003	671,837	285,225	285,225	(5)	1,872,081	1,004,450	268,231
	1919	42	51	252	313	108	205	68,833	255,460	146,986	111,634	35,352	753,058	(10)	(10)
Connecticut.....	1929	57	171	671	835	99	736	468,883	941,350	337,602	240,163	97,439	2,661,614	1,970,353	691,261
	1927	39	117	438	729	242	487	260,492	659,308	266,940	266,940	(5)	1,529,116	1,529,116	515,076
	1919	24	52	185	242	76	166	76,165	210,956	113,274	85,520	27,764	684,689	(10)	(10)
Delaware.....	1929	6	20	67	79		79	41,194	79,191	25,815	16,435	9,380	222,552	209,442	13,110
	1927	8	17	87	90		90	34,554	80,641	35,500	35,500	(5)	220,500	219,580	9,920
	1919	3	9	23	31	18	13	11,797	18,813	18,176	16,488	1,688	73,884	(10)	(10)
District of Columbia.....	1929	16	88	366	739	141	598	203,696	422,991	147,479	110,588	36,041	1,171,110	736,511	434,605
	1927	17	68	471	551	134	417	155,502	532,321	153,222	153,222	(5)	1,329,080	580,103	748,917
	1919	6	3	94	73	54	19	3,131	102,601	44,178	37,081	7,097	236,761	(10)	(10)
Florida.....	1929	169	99	829	1,263	404	859	173,118	828,527	301,325	217,761	83,564	2,141,083	1,062,002	179,081
	1927	46	70	397	530	119	411	111,727	460,762	162,393	162,393	(5)	1,160,718	1,028,221	132,497
	1919	10	13	66	58	11	47	14,037	52,536	51,007	44,672	6,395	166,834	(10)	(10)
Georgia.....	1929	95	84	781	1,078	262	816	154,865	667,656	331,188	263,208	67,980	1,943,800	1,769,000	173,900
	1927	37	128	626	811	336	423	243,933	555,590	208,115	208,115	(5)	1,648,893	1,559,970	88,923
	1919	12	37	129	187	55	132	32,022	93,775	91,419	70,773	20,646	320,963	(10)	(10)
Idaho.....	1929	16	17	93	119	6	113	35,288	127,295	50,536	39,818	10,718	392,941	302,941	8,141
	1927	18	20	105	220	110	110	34,461	141,169	59,808	59,808	(5)	371,804	363,663	(10)
	1919	4	6	44	18		18	10,698	48,110	49,281	46,665	2,616	130,507	(10)	(10)
Illinois.....	1929	391	1,077	5,354	8,331	1,652	6,679	2,812,373	8,314,682	2,637,557	1,935,963	701,594	20,748,548	16,323,715	4,424,833
	1927	236	856	3,969	5,088	846	4,242	2,043,341	6,584,721	2,137,998	1,137,998	(5)	16,973,344	11,952,074	5,021,270
	1919	159	333	1,633	2,165	826	1,339	612,619	1,809,996	1,275,461	1,093,152	182,309	5,208,935	(10)	(10)
Indiana.....	1929	200	300	1,732	3,023	360	2,663	518,515	2,027,166	849,037	640,024	208,113	5,767,443	4,963,529	803,914
	1927	169	244	1,238	1,914	188	1,726	399,721	1,457,335	751,632	751,632	(5)	4,486,558	3,865,368	620,990
	1919	101	120	599	1,024	297	727	138,315	514,016	309,013	340,336	68,677	1,588,752	(10)	(10)
Iowa.....	1929	155	168	1,002	2,058	540	1,509	258,570	1,180,281	577,024	425,284	151,740	3,611,739	3,421,430	190,309
	1927	121	124	688	1,107	232	885	174,430	807,831	435,282	435,282	(5)	2,525,613	2,389,006	136,607
	1919	70	103	405	523	175	348	127,310	432,751	259,277	186,934	72,343	1,333,407	(10)	(10)
Kansas.....	1929	134	41	713	927	141	786	63,275	773,037	350,660	270,867	79,823	2,291,918	2,202,671	89,247
	1927	92	70	480	629	60	569	91,415	576,502	244,232	244,232	(5)	1,737,830	1,635,925	101,905
	1919	60	12	203	204	45	219	8,644	216,276	140,678	115,128	25,550	608,974	(10)	(10)
Kentucky.....	1929	79	124	857	1,116	291	825	275,821	894,691	361,274	284,807	76,467	2,437,530	2,023,103	414,427
	1927	48	124	577	836	265	571	249,194	633,697	316,558	316,558	(5)	1,864,076	1,544,091	319,085
	1919	41	61	259	347	176	171	77,180	192,690	153,660	130,404	23,156	720,341	(10)	(10)
Louisiana.....	1929	87	70	568	690	297	693	137,939	548,391	210,593	157,488	53,105	1,556,597	1,475,694	80,903
	1927	17	50	337	311		311	96,169	343,815	107,096	107,096	(5)	957,050	763,436	193,614
	1919	26	39	158	240	130	110	51,613	113,801	80,815	63,172	17,643	384,776	(10)	(10)
Maine.....	1929	24	54	310	291	45	216	111,478	317,107	103,754	78,936	24,818	854,102	782,826	71,276
	1927	12	36	149	177	53	124	80,784	190,138	54,419	54,419	(5)	508,707	466,119	42,588
	1919	12	22	94	112	8	104	24,567	87,054	45,532	31,849	13,683	241,671	(10)	(10)
Maryland.....	1929	39	120	919	1,968	857	1,111	279,552	877,502	352,493	265,693	86,800	2,787,957	1,961,820	826,128
	1927	23	90	694	895	599	386	287,780	650,378	291,691	291,691	(5)	2,221,200	1,803,325	417,965
	1919	9	150	441	721	698	23	153,063	249,761	160,845	131,115	29,730	1,011,843	(10)	(10)
Massachusetts.....	1929	77	400	2,127	2,718	652	2,066	942,547	2,692,549	845,709	616,591	229,118	6,828,603	4,202,741	2,622,862
	1927	49	305	1,166	1,462	254	1,208	519,879	1,520,328	457,419	457,419	(5)	3,944,283	2,557,774	1,386,509
	1919	45	133	723	1,063	376	687	185,412	671,117	600,020	521,406	79,214	2,252,321	(10)	(10)
Michigan.....	1929	236	472	3,035	3,848	272	3,576	1,037,853	4,500,991	1,595,280	1,126,498	378,782	11,788,764	9,183,403	2,605,361
	1927	133	352	1,979	2,490	157	2,312	726,710	2,827,095	1,186,494	1,186,494	(5)	7,649,145	5,982,983	1,666,162
	1919	73	135	681	714	156	558	164,469	732,308	455,808	370,546	85,322	2,943,559	(10)	(10)
Minnesota.....	1929</														

DYEING AND CLEANING ESTABLISHMENTS

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TABLE 2.—GENERAL STATISTICS, BY STATES: 1929, 1927, AND 1919—Continued

STATE	Census year	Number of establishments	Salaried officers and employees ¹	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF SUPPLIES, FUEL, AND PURCHASED ELECTRIC ENERGY			AMOUNT RECEIVED FOR WORK DONE		
					Total	Prime movers	Motors run by purchased energy			Total ²	Supplies ²	Fuel and purchased energy	Total	Retail	Wholesale
Mississippi	1929	80	58	461	544	165	379	\$72,398	\$413,935	\$178,677	\$138,005	\$40,672	\$1,249,896	\$1,243,615	\$6,281
	1927	16	24	122	145	145	145	43,543	102,786	49,388	49,388	(³)	370,201	369,151	1,050
	1919	24	8	68	635	69	556	8,854	46,007	27,041	19,275	7,766	128,143	(¹⁰)	(¹⁰)
Missouri	1929	190	490	2,058	2,955	609	2,376	1,011,439	2,519,545	1,014,664	776,475	238,189	7,263,909	5,946,774	1,317,135
	1927	94	379	1,526	1,948	422	1,526	787,539	1,922,568	734,733	734,733	(³)	5,168,062	4,562,135	595,927
	1919	125	228	1,062	1,292	558	734	359,455	899,098	659,753	563,809	95,944	2,827,687	(¹⁰)	(¹⁰)
Montana	1929	29	13	164	254	13	241	37,008	226,909	96,090	68,212	27,868	667,656	657,297	10,449
	1927	17	10	86	174	47	127	20,301	104,006	45,808	45,808	(³)	317,227	310,161	7,066
	1919	23	4	94	116	116	116	9,790	115,490	59,071	49,084	9,987	312,189	(¹⁰)	(¹⁰)
Nebraska	1929	101	134	753	1,065	138	927	241,370	854,774	381,658	286,524	95,134	2,494,417	2,316,943	177,474
	1927	69	95	575	748	92	656	160,414	852,687	316,589	316,589	(³)	1,857,892	1,808,412	79,480
	1919	41	78	299	408	44	364	111,472	289,080	227,945	186,222	41,723	983,987	(¹⁰)	(¹⁰)
Nevada	1929	15	6	52	82	82	82	6,871	74,852	33,826	26,479	7,347	239,765	236,689	3,076
	1927	7	8	52	59	10	49	12,815	57,742	32,152	32,152	(³)	173,742	168,542	5,200
	1919	13	36	129	115	57	58	47,267	122,307	68,125	59,184	8,991	311,187	(¹⁰)	(¹⁰)
New Hampshire	1929	13	18	126	165	165	165	30,864	144,103	96,960	76,922	20,058	480,923	364,662	66,261
	1927	13	13	68	110	5	111	22,070	84,077	50,930	50,930	(³)	281,326	270,591	10,735
	1919	8	3	46	46	10	36	1,946	40,098	20,598	15,023	5,575	111,359	(¹⁰)	(¹⁰)
New Jersey	1929	104	323	2,000	3,203	555	2,648	855,985	2,945,264	821,534	584,265	237,269	7,088,992	3,877,842	3,211,150
	1927	59	211	1,393	1,619	316	1,303	482,379	1,878,454	600,952	600,952	(³)	4,600,284	2,222,993	2,377,291
	1919	30	47	465	608	283	325	87,046	549,119	392,074	345,811	46,263	1,408,447	(¹⁰)	(¹⁰)
New Mexico	1929	16	10	71	137	15	122	24,135	81,607	35,270	26,936	8,334	276,442	276,442	-----
	1927	10	12	50	68	68	68	19,840	67,303	22,423	22,423	(³)	205,913	192,243	13,670
	1919	4	-----	12	18	-----	-----	-----	14,700	5,572	-----	3,200	2,872	29,873	(¹⁰)
New York	1929	289	967	5,544	9,315	2,889	6,426	2,826,883	8,083,152	3,072,035	2,333,651	738,384	22,793,578	11,454,971	11,338,607
	1927	145	651	3,370	5,579	2,498	3,086	1,536,245	5,204,646	1,981,761	1,981,761	(³)	14,667,672	6,739,419	7,928,153
	1919	159	485	1,793	1,617	387	1,230	656,064	1,994,813	1,458,326	1,220,985	287,341	5,966,122	(¹⁰)	(¹⁰)
North Carolina	1929	145	112	1,008	1,587	417	1,170	199,351	981,106	385,034	291,761	93,273	2,728,342	2,675,214	53,128
	1927	86	66	442	461	58	403	110,538	391,805	158,404	158,404	(³)	1,124,821	1,109,872	14,949
	1919	21	18	151	130	77	53	27,956	106,739	81,659	67,609	14,050	321,586	(¹⁰)	(¹⁰)
North Dakota	1929	21	12	129	137	-----	137	22,222	141,701	53,868	31,793	22,070	424,581	422,581	2,000
	1927	11	10	78	97	31	66	14,234	73,675	47,724	47,724	(³)	223,704	220,330	3,374
	1919	14	6	64	77	16	61	4,583	57,825	46,802	38,017	8,785	201,086	(¹⁰)	(¹⁰)
Ohio	1929	303	664	4,068	5,859	1,066	4,793	1,513,602	5,335,443	1,842,721	1,427,389	415,332	14,059,446	11,111,053	2,948,393
	1927	275	664	3,517	4,771	960	3,811	1,292,790	4,548,721	1,802,410	1,802,410	(³)	12,703,995	10,061,009	2,702,086
	1919	173	354	1,594	2,714	1,334	1,380	483,306	1,528,284	903,864	735,805	168,059	4,657,055	(¹⁰)	(¹⁰)
Oklahoma	1929	135	91	992	1,199	164	1,035	165,959	1,126,559	412,389	302,285	110,104	3,050,574	2,824,866	225,708
	1927	95	73	599	692	15	677	113,306	711,984	347,180	347,180	(³)	2,101,265	2,021,702	79,563
	1919	50	35	255	259	50	209	43,129	298,423	155,673	131,015	24,658	814,692	(¹⁰)	(¹⁰)
Oregon	1929	67	89	674	736	45	691	154,060	827,079	240,185	182,614	57,571	2,023,495	1,852,933	170,562
	1927	45	67	513	513	102	411	111,865	656,186	199,775	199,775	(³)	1,585,384	1,488,493	96,891
	1919	28	43	207	198	58	140	37,740	204,799	127,024	111,087	15,937	594,282	(¹⁰)	(¹⁰)
Pennsylvania	1929	242	670	4,255	5,430	964	4,466	1,312,793	5,318,274	2,070,307	1,615,931	454,376	14,166,085	10,474,814	3,691,271
	1927	139	480	2,627	3,191	560	2,631	860,616	3,464,697	1,453,066	1,453,066	(³)	9,125,314	6,561,459	2,563,855
	1919	142	297	1,320	1,697	855	842	401,361	1,260,980	1,070,458	954,220	116,238	3,883,875	(¹⁰)	(¹⁰)
Rhode Island	1929	17	86	478	598	85	513	210,469	524,660	267,962	213,997	53,965	1,515,192	988,026	527,166
	1927	7	73	308	470	175	295	140,623	356,827	194,121	194,121	(³)	1,264,270	739,163	525,107
	1919	7	46	121	132	14	118	58,883	96,984	61,406	49,014	12,392	388,639	(¹⁰)	(¹⁰)
South Carolina	1929	52	55	452	427	22	405	89,541	370,961	157,923	122,131	35,792	1,079,482	1,079,396	86
	1927	19	29	211	234	15	219	46,125	189,532	77,972	77,972	(³)	537,638	536,438	1,200
	1919	18	9	77	47	19	28	15,282	49,441	30,185	24,534	5,651	152,458	(¹⁰)	(¹⁰)
South Dakota	1929	27	11	171	227	4	223	18,818	199,066	92,061	66,676	25,385	525,966	494,683	31,283
	1927	20	7	117	170	-----	170	16,653	129,510	67,633	67,633	(³)	347,809	341,480	6,329
	1919	15	2	57	76	2	74	1,898	65,758	38,230	29,688	8,542	178,570	(¹⁰)	(¹⁰)
Tennessee	1929	66	150	1,022	1,321	329	992	308,853	1,029,718	403,569	301,596	101,973	2,978,532	2,923,298	55,234
	1927	44	90	487	763	239	524	209,921	565,326	211,079	211,079	(³)	1,701,750	1,667,646	34,104
	1919	32	94	390	485	237	248	117,460	264,863	179,024	149,451	29,573	894,743	(¹⁰)	(¹⁰)
Texas	1929	377	366	2,872	3,320	433	2,887	573,852	3,228,893	1,164,490	837,306	327,184	8,997,707	8,646,191	351,510
	1927	207	205	1,939	1,919	212	1,727	442,078	2,223,703	846,973	846,973	(³)	6,367,117	6,215,979	151,138
	1919	97	99	614	798	331	467	143,036	640,295	383,825	313,229	70,605	1,910,899	(¹⁰)	(¹⁰)
Utah ¹¹	1929	35	47	294	360	108	282	94,014	339,157	106,311	78,826	27,485	818,992	766,548	52,444
	1927	17	30	183	220	66	154	58,821	209,940	72,546	72,546	(³)	505,195	464,923	40,272
Vermont ¹¹	1929	17	19	126	169	7	153	31,745	123,557	52,677	40,839	11,838	357,203	347,852	9,351
	1919	6	1	16	30	12	18	300	12,554	9,448	6,914	2,594	42,883	(¹⁰)	(¹⁰)
Virginia	1929	106	187	1,013	1,421	501	920	282,424	991,649	412,056	315,377	96,679	2,838,080	2,758,421	79,659
	1927	48	101	479	623	117	506	160,490	491,210	228,017	228,017	(³)	1,491,867	1,445,625	46,242
	1919</														

CENSUS OF MANUFACTURES: 1929

TABLE 2.—GENERAL STATISTICS, BY STATES: 1929, 1927, AND 1919—Continued

STATE	CENSUS YEAR	Number of establishments	Salaried officers and employees ¹	Wage earners (average for the year)	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			Salaries	Wages	COST OF SUPPLIES, FUEL, AND PURCHASED ELECTRIC ENERGY			AMOUNT RECEIVED FOR WORK DONE		
					Total	Prime movers	Motors run by purchased energy			Total ²	Supplies ³	Fuel and purchased energy	Total	Retail	Wholesale
West Virginia	1929	63	72	595	900	193	707	\$170,858	\$707,530	\$263,538	\$197,377	\$66,161	\$1,864,993	\$1,719,142	\$145,851
	1927	48	77	511	683	133	550	156,974	644,398	225,950	225,950	0	1,647,901	1,535,071	112,830
	1919	37	27	232	241	68	173	45,307	196,194	106,783	85,939	20,844	560,139	(10)	(10)
Wisconsin	1929	95	174	1,039	1,253	53	1,200	381,615	1,307,447	462,486	329,275	133,211	3,459,744	2,994,766	464,988
	1927	60	121	676	729	85	644	245,094	867,734	333,727	333,727	0	2,452,460	2,090,014	362,446
	1919	42	118	475	561	218	343	152,182	407,073	370,956	307,098	63,858	1,369,183	(10)	(10)
Wyoming	1929	11	4	42	94	25	69	7,800	56,332	26,069	20,058	6,011	168,705	165,001	3,704
	1927	9	4	38	80	10	70	4,780	30,707	29,817	29,817	0	206,297	195,297	10,000
	1919	12	26	53	53	4	49		31,618	17,090	12,563	4,527	110,366	(10)	(10)

¹ Not including proprietors and firm members. The total numbers of persons engaged and the numbers of proprietors and firm members, as reported for the industry, are as follows: For 1929, total, 73,304; proprietors and firm members, 4,912. For 1927, total, 50,689; proprietors and firm members, 3,106. For 1919, total, 24,934; proprietors and firm members, 2,285.

² Includes amounts paid for contract work.

³ In addition, receipts for dyeing and cleaning to the amount of \$13,403,524 were reported by 654 power laundries.

⁴ Includes cost of fuel and purchased energy.

⁵ Included in cost of supplies.

⁶ Not including data for establishments reporting receipts of less than \$5,000; comparable with figures for 1927 and 1929. For some items data for these laundries are not available.

⁷ This item can not be adjusted, since the data for dyeing and cleaning establishments reporting receipts of less than \$5,000 can not be segregated.

⁸ Figures include data for dyeing and cleaning establishments reporting receipts of less than \$5,000, and are comparable with data reported by States for 1919.

⁹ Data for purchased power other than electric (power transmitted into the plant by belt or shaft) are included in the State items for 1919 but not in the United States totals.

¹⁰ No data.

¹¹ Figures for Nevada and Vermont for the year 1927, are combined in order to avoid disclosing data for individual plants.

¹² Figures for Nevada and Utah for the year 1919, are combined in order to avoid disclosing data for individual plants.

TABLE 3.—GENERAL STATISTICS FOR CITIES HAVING 100,000 INHABITANTS OR MORE: 1929

[This table gives statistics for all cities which had 100,000 inhabitants or more for which separate figures can be given without disclosing data reported by individual plants]

CITY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	Horsepower	Salaries	Wages	COST OF SUPPLIES, FUEL, AND PURCHASED ELECTRIC ENERGY		Amount received for work done
							Supplies	Fuel and purchased electric energy	
Akron, Ohio	13	40	218	417	\$95,079	\$303,010	\$73,628	\$24,118	\$730,396
Albany, N. Y.	6	10	58	215	18,236	95,160	27,996	12,872	276,056
Atlanta, Ga.	37	38	374	582	96,600	302,211	97,240	26,062	963,284
Baltimore, Md.	20	76	397	652	171,189	372,351	117,489	38,247	1,162,087
Birmingham, Ala.	36	64	506	1,003	130,844	456,047	113,421	36,090	1,150,302
Boston, Mass.	16	114	591	874	281,258	836,264	219,247	79,874	2,082,368
Bridgeport, Conn.	7	28	102	168	99,852	134,707	33,428	14,893	433,404
Buffalo, N. Y.	18	104	441	660	259,072	605,232	156,760	41,495	1,562,160
Cambridge, Mass.	3	13	66	80	19,309	88,275	25,100	7,064	232,583
Camden, N. J.	4	14	28	73	35,040	37,555	9,640	6,891	140,233
Canton, Ohio	6	9	57	75	19,652	86,544	28,765	7,037	255,360
Chattanooga, Tenn.	12	24	140	169	46,357	120,088	32,380	14,501	380,587
Chicago, Ill.	112	656	2,896	4,061	1,940,201	5,090,868	1,067,163	400,678	11,989,312
Cincinnati, Ohio	12	62	765	926	267,693	913,398	178,194	51,350	2,232,261
Cleveland, Ohio	36	206	1,108	1,484	462,026	1,631,198	356,081	109,635	3,948,850
Columbus, Ohio	23	69	279	462	122,369	331,586	111,042	29,223	942,641
Dallas, Tex.	25	82	416	522	156,859	459,770	122,000	45,539	1,256,472
Dayton, Ohio	17	29	157	347	84,131	201,548	81,774	18,979	726,396
Denver, Colo.	34	63	358	392	120,036	447,844	108,575	38,055	1,188,793
Des Moines, Iowa	12	68	206	375	101,019	223,414	70,258	27,584	700,203
Detroit, Mich.	52	289	1,575	1,957	701,917	2,498,404	588,112	190,623	6,567,927
Duluth, Minn.	7	33	125	114	54,078	140,695	32,332	11,774	440,864
Elizabeth, N. J.	4	13	95	164	30,080	149,350	24,525	8,902	301,966
El Paso, Tex.	13	14	113	89	31,250	113,436	34,434	13,226	325,229
Erie, Pa.	12	8	96	172	10,969	114,562	33,399	13,566	314,944
Evansville, Ind.	9	13	89	85	22,508	81,880	30,407	3,703	248,096
Flint, Mich.	9	8	76	126	14,534	115,130	25,742	11,363	300,527
Fort Wayne, Ind.	10	21	102	147	45,386	128,589	43,175	9,794	364,500
Fort Worth, Tex.	19	32	326	207	67,167	349,663	60,741	29,121	866,341
Gary, Ind.	16	19	80	157	32,432	112,244	28,636	15,422	311,381
Grand Rapids, Mich.	10	17	134	140	29,476	195,477	48,188	14,798	463,678
Hartford, Conn.	7	55	191	200	128,768	301,851	65,433	25,473	776,044
Houston, Tex.	55	47	568	600	88,323	645,433	146,238	54,062	1,666,078
Indianapolis, Ind.	28	103	506	965	195,322	675,250	171,217	51,751	1,574,607
Jacksonville, Fla.	22	17	188	246	36,189	178,897	42,378	19,375	462,622

DYEING AND CLEANING ESTABLISHMENTS

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TABLE 3.—GENERAL STATISTICS FOR CITIES HAVING 100,000 INHABITANTS OR MORE: 1929—Continued

[See note at head of this table]

CITY	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	Horse-power	Salaries	Wages	COST OF SUPPLIES, FUEL, AND PURCHASED ELECTRIC ENERGY		Amount received for work done
							Supplies	Fuel and purchased electric energy	
Jersey City, N. J.	9	42	228	254	\$112,362	\$371,759	\$63,633	\$24,311	\$812,543
Kansas City, Kans.	4	6	23	51	11,010	36,853	12,360	5,995	110,230
Kansas City, Mo.	58	110	546	1,048	221,219	689,075	170,564	79,780	1,940,429
Knoxville, Tenn.	13	22	122	197	33,413	144,622	46,390	14,970	362,268
Long Beach, Calif.	12	19	130	149	35,329	223,582	67,589	12,943	450,377
Los Angeles, Calif.	63	173	1,330	1,506	419,699	2,042,129	501,949	72,701	4,636,875
Louisville, Ky.	19	78	385	509	171,229	380,521	114,088	36,174	1,063,511
Lowell, Mass.	3	10	29	38	9,285	36,389	7,740	3,978	83,694
Lynn, Mass.	3	14	78	91	27,856	116,169	27,564	3,684	272,401
Memphis, Tenn.	24	61	443	444	138,808	479,778	124,564	41,861	1,304,453
Miami, Fla.	11	37	190	220	60,084	216,468	39,901	24,606	525,060
Milwaukee, Wis.	15	69	489	508	178,871	642,597	126,225	49,832	1,449,076
Minneapolis, Minn.	41	129	697	418	246,014	850,706	221,705	55,201	2,227,343
Nashville, Tenn.	9	25	130	171	60,968	108,271	39,345	12,639	394,995
Newark, N. J.	8	53	365	542	211,065	533,336	105,998	43,139	1,413,403
New Bedford, Mass.	4	2	74	89	5,200	96,784	14,863	7,091	176,105
New Haven, Conn.	9	19	104	114	55,301	157,163	49,367	11,215	381,732
New Orleans, La.	54	42	315	617	80,052	296,805	98,873	29,363	572,670
New York, N. Y.	101	559	3,091	5,125	1,811,789	5,040,565	1,448,671	410,484	13,615,761
Brox Borough	9	29	135	327	94,834	187,251	82,202	20,771	700,409
Brooklyn Borough	35	206	1,286	1,755	677,532	1,954,967	437,025	159,584	5,203,830
Manhattan Borough	38	195	828	1,434	570,392	1,493,087	537,492	123,366	4,025,036
Queens and Richmond Boroughs ¹	19	128	842	1,609	469,031	1,406,260	392,042	106,763	3,686,486
Norfolk, Va.	24	21	191	199	31,721	174,583	59,444	18,419	513,541
Oakland, Calif.	18	22	228	353	33,016	387,589	60,102	17,529	705,763
Oklahoma City, Okla.	10	39	240	184	70,282	233,808	58,864	29,360	655,740
Omaha, Nebr.	20	49	323	339	102,228	413,617	119,026	35,948	1,041,860
Paterson, N. J.	7	8	103	266	24,606	161,785	33,512	12,183	307,513
Peoria, Ill.	9	17	113	125	32,391	134,099	33,985	8,561	359,426
Philadelphia, Pa.	34	158	1,265	1,063	335,337	1,324,278	443,192	135,016	4,048,241
Pittsburgh, Pa.	41	111	687	1,032	362,760	1,232,144	422,376	74,841	3,346,299
Portland, Oreg.	23	67	462	421	127,352	545,461	90,377	30,460	1,286,429
Providence, R. I.	5	60	258	330	143,173	276,194	73,062	16,006	770,070
Reading, Pa.	5	18	65	81	19,921	81,658	21,863	11,400	260,623
Richmond, Va.	20	63	246	331	86,329	244,324	60,411	23,419	711,288
Rochester, N. Y.	18	48	306	407	104,471	435,303	140,827	32,411	1,054,297
St. Louis, Mo.	48	322	1,105	1,213	691,615	1,380,496	445,191	104,774	4,003,682
St. Paul, Minn.	16	52	237	205	90,953	273,933	70,542	25,833	698,415
Salt Lake City, Utah	17	43	200	225	86,962	228,457	53,809	19,080	562,496
San Antonio, Tex.	15	21	144	138	42,623	131,120	37,015	18,848	437,408
San Diego, Calif.	12	19	151	171	28,604	217,130	58,505	13,317	506,280
San Francisco, Calif.	26	90	1,113	1,688	166,903	1,499,267	235,859	92,075	3,240,195
Seranton, Pa.	10	47	198	268	67,472	185,511	47,472	21,024	567,455
Seattle, Wash.	21	66	450	805	177,248	661,655	126,255	34,049	1,427,127
South Bend, Ind.	7	12	104	158	27,240	129,531	22,847	11,100	258,386
Spokane, Wash.	11	23	167	156	37,321	230,032	41,041	11,731	591,877
Springfield, Mass.	4	29	96	85	69,564	112,269	30,962	8,657	358,729
Syracuse, N. Y.	10	23	133	349	58,770	184,478	67,236	19,472	447,280
Tacoma, Wash.	10	12	81	123	23,537	95,097	29,881	5,015	254,567
Tampa, Fla.	11	12	127	206	18,471	102,243	31,869	12,320	289,045
Toledo, Ohio	26	60	307	455	155,376	381,387	117,569	34,187	1,129,002
Trenton, N. J.	7	21	107	108	39,723	145,878	24,887	12,841	341,201
Tulsa, Okla.	16	26	236	227	55,044	311,774	58,265	24,388	730,004
Utica, N. Y.	9	16	97	273	35,318	134,593	26,151	19,727	314,779
Washington, D. C.	16	88	366	739	203,696	422,091	110,538	36,940	1,171,116
Wichita, Kans.	13	11	180	151	17,618	191,400	77,302	15,088	604,062
Wilmington, Del.	5	17	61	66	36,994	68,121	15,033	8,316	196,434
Worcester, Mass.	4	18	101	107	61,170	118,036	31,429	9,902	355,279
Youngstown, Ohio	9	42	220	183	91,351	317,953	83,582	16,971	784,967

¹ Combined to avoid disclosing data for individual establishments.

CENSUS OF MANUFACTURES: 1929

TABLE 4.—PERSONS ENGAGED IN THE INDUSTRY, BY CLASS AND BY SEX, FOR THE UNITED STATES: 1929 AND 1919

CLASS	Census year	Total	Male	Female	PER CENT OF TOTAL	
					Male	Female
All classes.....	1929	73,304	45,132	28,172	61.6	38.4
	1919	24,934	14,482	10,452	58.1	41.9
Proprietors and firm members.....	1929	4,912	4,577	335	93.2	6.8
	1919	2,285	2,164	131	94.3	5.7
Salaried officers and employees.....	1929	9,244	4,711	4,533	51.0	49.0
	1919	3,842	1,714	2,128	44.6	55.4
Salaried officers of corporations.....	1929	2,319	2,110	209	91.0	9.0
	1919	631	585	46	92.7	7.3
Other salaried employees.....	1929	6,925	2,601	4,324	37.6	62.4
	1919	3,211	1,129	2,082	35.2	64.8
Wage earners (average for the year).....	1929	59,148	35,844	23,304	60.6	39.4
	1919	18,807	10,614	8,193	56.4	43.6

TABLE 5.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1929, 1925, AND 1919, AND BY STATES, 1929

[The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures]

STATE	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY												Per cent minimum is of maximum	
		January	February	March	April	May	June	July	August	September	October	November	December		
United States:															
1929.....	59,148	54,764	55,085	58,127	60,503	60,754	61,390	60,718	60,236	61,628	61,304	58,524	56,762	88.8	
1925.....	29,386	26,512	26,670	28,268	29,968	30,127	30,466	30,268	29,972	31,101	31,280	29,542	28,466	84.8	
1919.....	18,408	16,351	16,440	17,328	18,577	18,667	18,849	18,731	18,842	19,408	19,767	19,349	18,697	82.8	
Alabama.....	987	940	<i>893</i>	964	1,003	993	1,006	1,006	1,010	1,018	1,014	984	978	91.8	
Arizona.....	251	252	252	269	266	265	250	233	<i>232</i>	243	248	249	250	86.2	
Arkansas.....	497	490	483	491	493	497	502	497	504	507	498	500	499	96.3	
California.....	4,757	4,566	4,582	4,687	4,690	4,787	4,792	4,807	4,805	4,842	4,858	4,701	4,682	92.4	
Colorado.....	620	586	<i>579</i>	599	613	622	650	600	601	603	629	589	583	87.3	
Connecticut.....	671	<i>604</i>	611	648	683	689	714	707	698	710	702	659	631	84.6	
Delaware.....	67	<i>62</i>	62	66	67	67	68	67	68	71	71	68	67	87.3	
District of Columbia.....	366	314	<i>306</i>	359	362	384	396	389	385	396	405	372	318	75.6	
Florida.....	829	863	887	883	846	816	793	794	780	807	811	823	845	83.2	
Georgia.....	781	762	763	765	757	760	775	826	828	817	808	779	757	90.8	
Idaho.....	93	<i>89</i>	89	91	94	94	93	92	93	94	94	94	93	94.7	
Illinois.....	5,354	4,908	4,971	5,397	5,710	5,599	5,635	5,422	5,380	5,646	5,622	5,152	5,008	86.0	
Indiana.....	1,732	1,635	1,640	1,746	1,818	1,818	1,775	1,762	1,744	1,763	1,765	1,687	1,647	89.9	
Iowa.....	1,002	<i>940</i>	943	1,004	1,042	1,041	1,037	1,005	1,002	1,025	1,022	998	966	90.2	
Kansas.....	713	686	<i>685</i>	711	725	717	720	712	715	741	732	715	701	92.4	
Kentucky.....	857	<i>801</i>	835	863	890	873	878	877	858	872	876	845	814	90.0	
Louisiana.....	568	550	551	555	574	590	594	586	571	565	572	559	543	91.4	
Maine.....	310	<i>277</i>	277	294	322	324	329	330	334	321	316	299	292	82.0	
Maryland.....	919	<i>812</i>	827	869	895	893	977	930	937	953	958	915	881	81.6	
Massachusetts.....	2,127	1,851	1,874	2,027	2,244	2,257	2,322	2,241	2,198	2,285	2,247	2,038	1,944	79.7	
Michigan.....	3,035	2,688	2,687	2,927	3,258	3,227	3,224	3,188	3,089	3,211	3,179	2,945	2,791	82.5	
Minnesota.....	1,237	1,110	1,125	1,260	1,312	1,300	1,311	1,311	1,252	1,291	1,281	1,197	1,139	84.6	
Mississippi.....	461	<i>448</i>	450	453	457	461	464	466	468	472	468	465	463	94.9	
Missouri.....	2,058	1,884	1,889	2,025	2,063	2,104	2,092	1,932	2,030	2,221	2,215	2,139	2,102	83.2	
Montana.....	164	<i>154</i>	156	161	164	170	170	169	170	169	164	160	158	90.6	
Nebraska.....	753	720	<i>716</i>	742	771	780	782	741	744	785	790	737	726	90.5	
Nevada.....	52	51	<i>50</i>	51	52	52	55	53	52	52	51	52	51	90.9	
New Hampshire.....	126	109	<i>108</i>	127	125	131	148	143	139	137	122	112	110	73.0	
New Jersey.....	2,000	1,850	1,847	1,921	2,011	2,029	2,093	2,116	2,106	2,060	2,040	1,983	1,944	87.3	
New Mexico.....	71	<i>65</i>	65	69	70	72	71	73	73	72	73	75	77	84.4	
New York.....	5,544	4,934	5,027	5,288	5,553	5,687	5,955	5,888	5,781	5,830	5,832	5,490	5,267	82.9	
North Carolina.....	1,008	<i>972</i>	971	983	996	997	1,004	1,024	1,032	1,038	1,038	1,030	1,018	93.5	
North Dakota.....	129	121	<i>119</i>	124	134	133	135	132	130	132	133	128	125	88.1	
Ohio.....	4,068	3,688	3,724	4,027	4,256	4,220	4,206	4,187	4,115	4,230	4,263	4,064	3,843	86.5	
Oklahoma.....	962	885	<i>884</i>	919	940	960	981	973	973	1,028	1,038	1,000	967	86.2	
Oregon.....	674	<i>609</i>	620	684	664	694	694	700	689	787	700	650	639	82.6	
Pennsylvania.....	4,255	4,014	4,031	4,236	4,405	4,373	4,405	4,356	4,283	4,361	4,371	4,181	4,042	91.1	
Rhode Island.....	478	<i>456</i>	441	468	496	493	496	505	481	614	509	462	446	84.6	
South Carolina.....	452	<i>441</i>	441	450	452	455	459	459	458	456	457	453	449	96.1	
South Dakota.....	171	<i>166</i>	166	167	171	175	174	174	175	177	172	168	166	93.3	
Tennessee.....	1,022	<i>941</i>	943	994	977	1,004	1,036	1,061	1,042	1,092	1,113	1,077	985	84.5	
Texas.....	2,872	2,728	2,726	2,790	2,850	2,895	2,926	2,919	2,807	2,970	2,988	2,907	2,861	91.2	
Utah.....	294	264	<i>259</i>	277	296	316	324	319	310	297	300	285	279	79.9	
Vermont.....	126	<i>119</i>	119	117	125	132	131	137	136	131	129	123	124	82.5	
Virginia.....	1,013	984	<i>972</i>	1,000	1,000	1,020	1,023	1,030	1,027	1,041	1,030	1,009	1,008	93.4	
Washington.....	946	872	<i>867</i>	936	960	982	980	972	984	1,017	983	913	878	85.3	
West Virginia.....	595	571	<i>563</i>	593	607	608	613	606	606	607	595	587	578	92.7	
Wisconsin.....	1,039	<i>923</i>	938	1,007	1,097	1,064	1,093	1,075	1,072	1,127	1,089	1,014	974	81.9	
Wyoming.....	42	<i>38</i>	38	38	38	43	43	44	44	44	43	43	43	86.4	

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TABLE 6.—WAGE EARNERS (AVERAGE FOR THE YEAR), BY PREVAILING NUMBER OF HOURS OF LABOR PER WEEK, BY STATES: 1929 AND 1919

[The average number of wage earners employed during the year in each establishment is classified as a total according to the customary hours of labor in that establishment, even though a few employees may have worked a larger or a smaller number of hours]

STATE	Census year	Aggregate	NUMBER EMPLOYED IN ESTABLISHMENTS IN WHICH THE PREVAILING HOURS OF LABOR PER WEEK WERE—										
			Under 45				45 and over but under 48	48	Over 48 but under 54	54	Over 54 but under 60	60 and over	
			Total (under 45) ¹	Under 40	40	Over 40 but under 44							44 and over but under 45
United States.....	1929 1919	59, 148 18, 807	12, 698 1, 444	475	368	134	11, 721	1, 111 498	16, 430 6, 806	8, 642 3, 876	12, 126 4, 689	1, 841 434	6, 300 1, 060
Alabama.....	1929 1919	987 220	20	20					233 12	23	224 112	8 26	479 70
Arizona.....	1929 1919	251 79	16	16					129 53	22	74 26		10
Arkansas.....	1929 1919	497 75							80 25		293 24		124 26
California.....	1929 1919	4, 757 1, 687	981 70	11	25	10	926	116 17	3, 197 1, 406	79 21	250 143	66 21	68 9
Colorado.....	1929 1919	620 252	27	15	2	3	7		315 212	24 4	90 27	6	158 9
Connecticut.....	1929 1919	671 185	64 16	4			60	13 6	34 57	242 68	215 32	71 1	32 5
Delaware.....	1929 1919	67 23							13 5	48		6	
District of Columbia.....	1929 1919	366 94	38	3			35		139 90		150 4		39
Florida.....	1929 1919	829 66	49	10	9	15	15		147 8		194 40	78	361 18
Georgia.....	1929 1919	781 129	37	18			19		152 17	30	125 5	7 13	460 64
Idaho.....	1929 1919	93 44							23 37		54 7		16
Illinois.....	1929 1919	5, 354 1, 633	3, 197 283	18	8	12	3, 159	14 78	844 342	226 387	764 431	86 22	223 90
Indiana.....	1929 1919	1, 732 599	235 26	44	3	7	191	69 32	310 154	259 110	565 174	90 18	201 85
Iowa.....	1929 1919	1, 002 405	37 6	26	3	2	6		272 86	25 42	434 204	16 2	218 65
Kansas.....	1929 1919	713 293	13 3	3			10	4	146 51	47 10	331 100	5	172 34
Kentucky.....	1929 1919	857 259	44 11	2	9		33	18 11	145 48	88 5	185 106	291 15	91 60
Louisiana.....	1929 1919	568 158							312 53	42	154 85	18	60 2
Maine.....	1929 1919	310 94							27 15	98 7	172 72		13
Maryland.....	1929 1919	919 441	126				126	11	55 407	473 28	81 6	83	90
Massachusetts.....	1929 1919	2, 127 723	630 37		9		621	38 12	688 456	546 130	132 79	83 8	10 1
Michigan.....	1929 1919	3, 035 981	445 24	13	10		422	68	1, 045 173	527 248	752 195	71 21	127 20
Minnesota.....	1929 1919	1, 237 482	244 64	1	3		240	132 7	339 239	213 108	286 55	2 5	21 4
Mississippi.....	1929 1919	461 68	5 2			5		1	18 1		76 20	40	322 44
Missouri.....	1929 1919	2, 058 1, 062	410 55	15		8	387	19 34	777 176	62 243	603 514	32 1	155 39
Montana.....	1929 1919	164 94	6	1		5			134 88	6	13		11
Nebraska.....	1929 1919	753 299	41	3			38	2 12	383 101	12 78	236 98	1	79 9
Nevada.....	1929 1919	52 129	4						48 120		4 6		
New Hampshire.....	1929 1919	126 46	5	2			3		32 20	59	22 22	4	8
New Jersey.....	1929 1919	2, 000 455	1, 141 57		41		1, 100	95 66	225 69	266 224	156 30	8	109 9
New Mexico.....	1929 1919	71 12							71 10		2		
New York.....	1929 1919	5, 544 1, 793	2, 908 536	77	58		2, 773	197 17	917 365	780 398	369 400	162 11	211 6
North Carolina.....	1929 1919	1, 008 151	13				13		186 67	23 4	188	42 44	556 36

See footnotes at end of table

CENSUS OF MANUFACTURES: 1929

TABLE 6.—WAGE EARNERS (AVERAGE FOR THE YEAR), BY PREVAILING NUMBER OF HOURS OF LABOR PER WEEK, BY STATES: 1929 AND 1919—Continued
[See note at head of this table]

STATE	Census year	Aggregate	NUMBER EMPLOYED IN ESTABLISHMENTS IN WHICH THE PREVAILING HOURS OF LABOR PER WEEK WERE—											
			Under 45				45 and over but under 48 ²	48	Over 48 but under 54	54	Over 54 but under 60	60 and over		
			Total (under 45) ¹	Under 40	40	Over 40 but under 44							44 and over but under 45	
North Dakota	1929	120						108						21
	1919	64						27		9		23	5	
Ohio	1929	4,068	503	41	74	14	374	132	792	2,194	331	85	51	
	1919	1,594	66					103	383	843	101	10	28	
Oklahoma	1929	962	7			7			207	9	513		226	
	1919	255							38	10	152	12	37	
Oregon	1929	674							583		54		37	
	1919	207	21						179		5		2	
Pennsylvania	1929	4,255	997	51	81	5	800	118	580	1,250	717	421	172	
	1919	1,320	41					39	197	460	470	57	38	
Rhode Island	1929	478	67		25		42		25	285	101			
	1919	121	5					20	10	38		48		
South Carolina	1929	452	5			5			59	19	35	9	325	
	1919	77							13		23	22	19	
South Dakota	1929	171	2				2		31	14	72		62	
	1919	57	1						12		15	5	24	
Tennessee	1929	1,022	20	8			12		176	76	584	23	143	
	1919	390	14					4	142		149		81	
Texas	1929	2,872	59	27		27	5	46	713	197	1,420	4	424	
	1919	614	1						208	60	302		43	
Utah	1929	294	41	28			13		202		23		28	
	1919													
Vermont	1929	126	7				7	6	23	63	13	14		
	1919	16	4						4		7		1	
Virginia	1929	1,013	6	6					254	0	511	57	179	
	1919	281						30	60	42	91	8	50	
Washington	1929	946	124		6		118		760		43		19	
	1919	437	26					5	406					
West Virginia	1929	595	33	2	2		20		219		275		68	
	1919	232	14						63	15	110	3	27	
Wisconsin	1929	1,039	95	10			85	13	233	350	224		124	
	1919	475	39					4	87	230	82	28	5	
Wyoming	1929	42							29		6		7	
	1919	26						14			12			

¹ Includes only "44 and under" for 1919.
² Covers "Between 44 and 48" for 1919.

³ Data for Nevada and Utah combined for 1919 to avoid disclosing operations of individual plants.

TABLE 7.—SIZE OF ESTABLISHMENTS—SUMMARY FOR ESTABLISHMENTS CLASSIFIED AS TO SIZE BY NUMBER OF WAGE EARNERS: 1929 AND 1919

WAGE EARNERS (Average for the year)	NUMBER OF ESTABLISHMENTS		WAGE EARNERS (average for the year)		COST OF SUPPLIES ¹	COST OF FUEL AND PURCHASED ELECTRIC ENERGY ¹	AMOUNT RE- CEIVED FOR WORK DONE ¹
	1929	1919 ²	1929	1919 ²			
		1929	1919 ²	1929	1919 ²	1929	1929
All establishments	5,296	2,156	59,148	18,807	\$20,308,267	\$6,528,408	\$201,255,360
No wage earners	34	113			29,733	14,955	267,677
1 to 5	2,688	1,171	9,218	3,167	4,023,996	1,080,829	33,460,652
6 to 20	1,939	704	20,340	7,358	7,116,123	2,598,122	69,821,647
21 to 50	470	125	14,579	4,227	4,688,142	1,581,843	40,892,872
51 to 100	126	34	8,535	2,262	2,304,055	759,135	27,395,224
101 to 250	34	9	4,756	1,793	1,643,273	385,894	15,467,700
251 and over	5		1,720		412,345	107,630	4,953,588

¹ No corresponding figures were tabulated for earlier years.
² The 1919 figures include data for establishments reporting receipts of less than \$5,000. (See "Limitation of statistics to establishments reporting receipts of \$5,000 or more," p. 1392.)

TABLE 8.—SIZE OF ESTABLISHMENTS—SUMMARY FOR ESTABLISHMENTS CLASSIFIED AS TO SIZE BY AMOUNT RECEIVED FOR WORK DONE: 1929, 1925, AND 1919

AMOUNT RECEIVED FOR WORK DONE	NUMBER OF ESTABLISHMENTS			WAGE EARNERS (average for the year)			AMOUNT RECEIVED FOR WORK DONE		
	1929	1925	1919	1929	1925	1919	1929	1925	1919
	1929	1925	1919	1929	1925	1919	1929	1925	1919
All establishments	5,296	2,406	2,156	59,148	29,386	18,807	\$201,255,360	\$102,394,284	\$54,421,305
Less than \$5,000	(¹)	(¹)	408	(¹)	(¹)	399	(¹)	(¹)	1,238,503
\$5,000 to \$19,999	2,795	1,057	1,014	10,417	3,735	3,904	32,474,281	12,187,347	11,272,973
\$20,000 to \$99,999	2,107	1,147	661	26,188	14,269	9,141	89,362,410	49,064,939	27,136,978
\$100,000 to \$499,999	1,497	(²)	(²)	14,010	(²)	(²)	47,189,269	(²)	(²)
\$500,000 to \$999,999	610	(²)	(²)	12,178	(²)	(²)	42,173,141	(²)	(²)
\$1,000,000 to \$499,999	376	(²)	(²)	18,666	(²)	(²)	66,396,777	(²)	(²)
\$100,000 to \$249,999	323			14,041			49,373,354		
\$250,000 to \$499,999	53	202	73	4,625	11,382	5,303	17,023,393	40,541,098	14,773,051
\$500,000 to \$999,999	14			2,489			9,045,535		
\$1,000,000 and over	3	(²)	(²)	1,388	(²)	(²)	3,976,357	(²)	(²)

¹ No data collected from establishments with receipts of less than \$5,000.

² No corresponding figures were tabulated for 1925 and 1919.

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TABLE 9.—TYPE OF OWNERSHIP—SUMMARY FOR ESTABLISHMENTS CLASSIFIED AS UNDER CORPORATE OR OTHER FORM OF OWNERSHIP (OR CONTROL) AND AS UNDER CENTRAL-ADMINISTRATIVE-OFFICE OR INDEPENDENT OPERATION: 1929 AND 1919

TYPE OF OWNERSHIP OR CONTROL, AND OF OPERATION	NUMBER OF ESTABLISHMENTS		SALARIED OFFICERS AND EMPLOYEES	WAGE EARNERS (average for the year)		AMOUNT RECEIVED FOR WORK DONE	
	1929	1919	1929 ¹	1929	1919	1929	1919
	Total.....	5,296	2,156	9,244	59,148	18,807	\$201,255,360
Type of ownership or control:							
Corporate ownership or control.....	1,402	432	6,725	22,644	9,782	113,696,427	27,393,531
Other forms of ownership or control (individual, partnership, etc.).....	3,894	1,724	2,519	26,504	9,025	87,558,933	27,027,774
Type of operation:							
Central-administrative-office (plural-unit).....	62	(1)	238	1,914	(1)	5,924,759	(1)
Independent (single-unit).....	5,234	(1)	9,006	57,234	(1)	195,330,591	(1)

¹ Not tabulated for 1919.

TABLE 10.—PRIME MOVERS, MOTORS, GENERATORS, AND CONSUMPTION OF PURCHASED ELECTRIC ENERGY—NUMBER AND RATED CAPACITY OF PRIME MOVERS AND ELECTRIC MOTORS, 1929, 1927, 1925, AND 1919, AND OF GENERATORS, 1929, 1927, AND 1925; QUANTITY OF ELECTRIC ENERGY PURCHASED, 1929

TYPE	1929		1927		1925		1919		PER CENT DISTRIBUTION OF RATED HORSEPOWER CAPACITY	
	Number	Capacity	Number	Capacity	Number	Capacity	Number	Capacity	1929	1919
	Prime movers and electric motors driven by purchased energy, aggregate.....	16,318	<i>Horsepower</i> 84,445	8,343	<i>Horsepower</i> 51,728	5,597	<i>Horsepower</i> 40,523	2,969	<i>Horsepower</i> 22,557	100.0
Prime movers, total.....	642	17,289	388	11,492	384	11,909	525	8,879	20.5	39.4
Steam, total.....	599	16,271	356	10,894	343	11,303	394	7,429	19.3	33.0
Engines.....	553	15,037	324	9,801	307	9,545	358	6,850	17.8	30.4
Turbines.....	46	1,234	32	1,093	36	1,818	36	579	1.5	2.0
Internal-combustion engines.....	43	1,018	32	598	41	516	131	1,450	1.2	6.4
Water wheels and water turbines.....										
Electric motors driven by purchased energy.....	15,676	67,156	7,955	40,236	5,513	28,614	2,444	13,678	79.5	60.6
Electric motors, total.....	16,034	68,491	8,387	42,549	5,862	30,722	2,733	15,369	100.0	100.0
Driven by purchased energy.....	15,676	67,156	7,955	40,236	5,513	28,614	2,444	13,678	98.1	89.0
Driven by energy generated in establishments reporting.....	358	1,335	432	2,313	349	2,108	289	1,691	1.9	11.0
Electric generators.....	22	<i>Kilowatts</i> 1,562	21	<i>Kilowatts</i> 1,770	24	<i>Kilowatts</i> 1,730	(1)	(1)		
Electric energy purchased ²		<i>Kilowatt-hours</i> 67,468,117								

¹ Data for electric generators not called for on schedule prior to 1925.

² This item covers the consumption of purchased electric energy for all purposes—power, heat, light, etc. No comparable figures for years prior to 1929.

TABLE 11.—FUEL, BY KIND, QUANTITY, AND COST, 1929, AND BY KIND AND QUANTITY, 1919

KIND	1929		1919 ¹	KIND	1929		1919 ¹
	Quantity	Cost	Quantity		Quantity	Cost	Quantity
Total cost of fuel.....		\$3,743,610		Fuel—Continued.			
Fuel:				Fuel oils, including crude oils and gas oils (gallons).....	14,447,373	\$725,827	1,698,942
Coal, total ² (tons, 2,000 lbs.).....	372,607	2,190,021	159,050	Gasoline and kerosene (gallons).....	120,263	9,057	1,345,008
Anthracite (tons, 2,240 lbs.).....	86,088	323,867	24,954	Gas, natural and manufactured (M cu. ft.).....	1,177,094	495,818	321,981
Bituminous (tons, 2,000 lbs.).....	391,510	1,866,154	131,102	Other fuels.....		249,097	
Coke (tons, 2,000 lbs.).....	9,541	73,790	3,451				

¹ No data on cost of fuel, by kinds, were collected for 1919.

² Calculated by adding the number of tons of bituminous coal and the number of tons of anthracite reduced to a 2,000-pound basis.